SERVICE MANUAL AA-2D CHASSIS

MODEL	DEST.	COMMANDER	CHASSIS NO.
KV-32S40	US	RM-Y165	SCC-S07A-A
KV-32S40	CND	RM-Y165	SCC-S08A-A
KV-32S45	US	RM-Y165	SCC-S07B-A
KV-32S45	CND	RM-Y165	SCC-S08B-A
KV-34SL40T	TAIWAN	RM-Y165	SCC-S16A-A
KV-34SL40C	E	RM-Y165	SCC-S09A-A
KV-34SL40	E	RM-Y165	SCC-S09B-A
KV-34SL45	E	RM-Y167	SCC-S09C-A
KV-35S40	US	RM-Y165	SCC-S07D-A
KV-35S40	CND	RM-Y165	SCC-S08E-A
KV-35S45	US	RM-Y167	SCC-S07E-A
KV-35S45	CND	RM-Y167	SCC-S08F-A
KV-37SL45	E	RM-Y167	SCC-S09F-A
KV-32V40	US	RM-Y165	SCC-S07C-A
KV-32V40	CND	RM-Y165	SCC-S08C-A
KV-32V65	CND	RM-Y167	SCC-S08D-A
KV-34VL65	E	RM-Y167	SCC-S09E-A
KV-34VL65C	E	RM-Y167	SCC-S09D-A
KV-35V65	CND	RM-Y167	SCC-S08G-A
KV-37VL65	E	RM-Y167	SCC-S09G-A
KV-37VL65C	E	RM-Y167	SCC-S09H-A

KV-35V65

RM-Y167

MICROFILM

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

	KV-32S40 KV-34SL40/40T	KV-34SL40C	KV-32S45 KV-34SL45	KV-32V40	KV-32V65 KV-34VL65/65C	KV-35S40/45 KV-37SL45	KV-35V65 KV-37VL65	KV-37VL65C
Power requirements	120V,60Hz	220V,50/60Hz	120V,60Hz	120V,60Hz	120V,60Hz(65) 220V,50/60Hz(65C)	120V,60Hz	120V,60Hz	220V,50/60Hz
Number of inputs/outputs								
Video [1]	1	1	2	3	3	2	3	3
S Video [2]	1	1	1	1	2	1	2	2
Audio [3]	1	1	2	3	3	2	3	3
Audio Out [4]	1	1	1	1	1	1	1	1
Monitor Out	-	-	-	1	1	-	1	1
TV out	-	-	-	-	1	-	1	1
S-Link	-	-	-	-	YES	-	YES	YES
Speaker output(W)	5W x 2	5W x 2	5W x 2	5W x 2	10W x 2	5W x 2	10W x 2	10W x 2
Power Consumption(W)								
In use(Max)	180W	175W	180W	180W	200W(65), 195W(65C)	210W	230W	225W
In standby	2W	3W	2W	2W	2W(65), 3W(65C)	2W	2W	3W
Dimensions(W/H/D)								
(mm)	791 x 707 x 604.5mm			821 x 675.3 x 587mm		870 x 761 x 653mm	920 x 730.8 x 641.8mm	
(in)	31 x 27 13/16 x 23 3/4			32 3/8 x 26 5/8 x 23 1/8		34 1/4 x 30 x 25 5/8	36 1/4 x 28 3/4 x 25 1/4	
Mass								
(kg)	71.4kg		72.7kg	70kg		83kg	90kg	
(lbs)	157lbs		160lbs	154lbs		183lbs	203lbs	

[1] 1 Vp-p 75 ohms unbalanced, sync negative
[2] Y: 1 Vp-p 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms
[3] 500 mVrms (100% modulation), Impedance: 47 kilohms
[4] More than 408 mVrms at the maximum volume setting (variable)

Television system
American TV standard

Channel coverage
VHF:2-13/UHF:14-69/CATV:1-125

Visible screen size
32-inch picture measured (KV-32S40/32S45/32V65/34SL40/34SL40C/34SL40T/34SL45/32V40/34VL65/34VL65C)

35-inch picture measured (KV-35S40/35S45/37SL45/35V65/37VL65/37VL65C)

Actual screen size
34-inch picture measured (KV-32S40/32S45/32V65/34SL40/34SL40C/34SL40T/34SL45/32V40/34VL65/34VL65C)

37-inch picture measured (KV-35S40/35S45/37SL45/35V65/37VL65/37VL65C)

Antenna
75 ohm external terminal for VHF/UHF

Supplied Accessories
Remote commander (w/2 size AA (R6) batteries)

RM-Y165: (KV-32S40/32S45/34SL40/34SL40T/34SL40C/35S40/32V40)

RM-Y167: (KV-34SL45/35S45/37SL45/32V65/34VL65/
34VL65C/35V65/37VL65/37VL65C)

Optional Accessory
Connecting Cables: VMC-810S/820S
VMC-720M,YC-15V/30V,RK-74A
TV-Stand: SU-32A3,SU-35A3
VHF/UHF Mixer: EAC-66

(●)® SRS (SOUND RETRIEVAL SYSTEM)

The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word 'SRS' and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

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Design and specifications are subject to change without notice.

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WARNINGS AND CAUTIONS

CAUTION!

AFTER REMOVING THE ANODE, SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNEIMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONTIONNEMENT SUSPECTE.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-l00 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

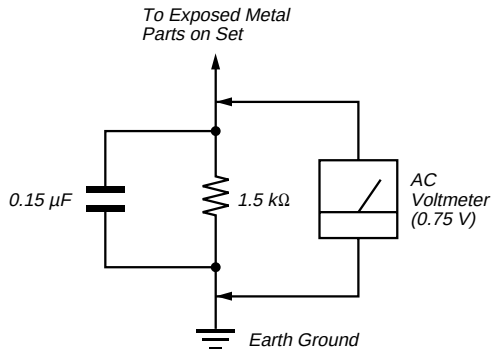


Fig. A. Using an AC voltmeter to check AC leakage.

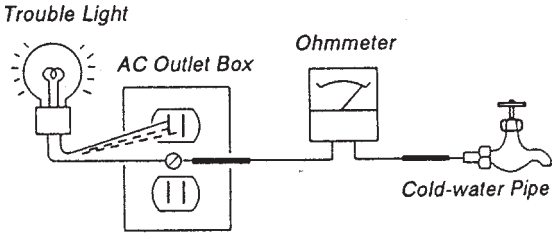


Fig B. Checking for earth ground.

SECTION 1 GENERAL

The instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual.

Welcome!

Thank you for purchasing the Sony Trinitron® Color TV. This manual is written for the models listed below. Before reading, check the model number located on the front of this manual or on the rear of your TV.

Model KV-35S45 is used for menu and illustration purposes. Differences in operation are indicated in the text; for example, "KV-35S45 only".

Model Number	Single tuner (VCR required for PIP)	Dual tuner (Ready for Use* PIP)	BTS	SURROUND	FAVORITE CHANNEL with Preview	AUTO VOLUME Control
KV-32S40				•		
KV-32S45	•			•		
KV-32S65		•		•	•	
KV-32V40			•			•
KV-32V65		•	•		•	•
KV-35S40				•		
KV-35S45	•			•		
KV-35S65		•		•	•	
KV-35V65		•	•		•	•

Precautions

Safety

- Operate the TV only with 120 V AC .
- The plug is designed, for safety purposes, to fit in the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified personnel before operating it further.
- If you will not be using the TV for several days, disconnect power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS".

Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

Using This Manual

This manual is divided into four major sections. We recommend that you carefully review the contents of each section in the order presented to ensure that you fully understand the operation of your new TV.

1 Connecting and Installing the TV
This section guides you through your initial set up. It shows how to connect to your antenna or cable, and connect any accessories or components.

2 Basic Set Up
This section teaches you the basic skills needed to operate your new TV. It shows you how to operate special functions of the remote control.

3 Using your New TV
This section shows you how to begin using your new TV. It shows how to use the Easy Set Up Guide feature, and how to use your remote control.

4 Using your Menus
This section teaches you how to access on-screen menus and adjust your TV's settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the TV console.

Connecting and Installing the TV

Making Connections

Refer to the table below, it will direct you to the diagram suitable to the components you will be connecting.

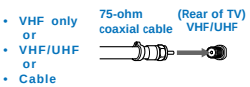
If you will be connecting	See page
Cable or antenna only	5
Cable and antenna (KV-32S65, 32V65, 35S65, 35V65 only)	5
Cable box	6
Cable box and cable to view scrambled channels (KV-32S65, 32V65, 35S65, 35V65 only)	6
VCR and cable or antenna	7
VCR and cable box	7
Direct Broadcast Satellite Receiver (DBS)	8
VCR and Direct Broadcast Satellite Receiver (DBS)	8
Digital Versatile Disc player (DVD)	9
Audio system	9
A / V receiver	10
Two VCR's for tape editing (KV-32V40, 32V65, 35V65 only)	10
Camcorder to view tapes	11
S-Link connections (KV-32S65, 32V65, 35S65, 35V65 only)	12

Cable or Antenna Connections

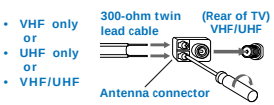
Connecting directly to cable or an antenna

The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).

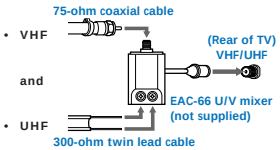
A



B



C

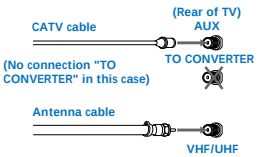


Cable and antenna

• **KV-32S65, 32V65, 35S65, 35V65 only**

If your cable provider does not feature local channels, you may find this set up convenient for viewing both local and cable channels.

Select cable or antenna mode by pressing ANT on the remote control. You will be able to alternate between the two input sources.



Note

- In order to receive channels with an antenna, you will need to turn your CABLE to OFF (see page 26) and perform the AUTO PROGRAM function.

Connecting and Installing the TV (continued)

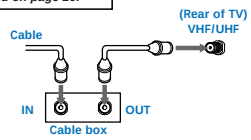
Cable Box Connections

Some pay cable TV systems use scrambled or encoded signals that require a cable box to view all channels.

Cable box

1 Connect the coaxial connector from your cable to the IN on your cable box.
2 Using a coaxial cable, connect OUT on your cable box to VHF / UHF on your TV.

If you will be controlling all channel selection through your cable box, you should consider using the CHANNEL FIX feature discussed on page 26.



Cable box and cable

• **KV-32S65, 32V65, 35S65, 35V65 only**

For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

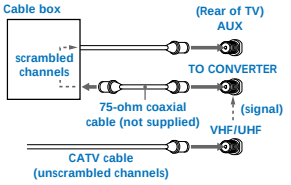
Notes

- Your Sony remote control can be programmed to operate your cable box. (see page 32)
- When using PIP, you cannot view the AUX input in the window picture.

Tip

Pressing ANT switches between these inputs.

If you are connecting a cable box through the AUX input and would like to switch between the AUX and normal (CATV) input you should consider using the CHANNEL FIX feature discussed on page 26.



VCR Connections

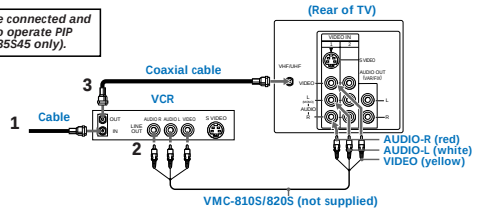
Connecting an antenna/cable TV system with a VCR

1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
2 Using A / V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.*
3 Using a coaxial connector, connect OUT on your VCR to VHF / UHF on your TV.

* If you are connecting a monaural VCR, connect only the single white audio output to the left input on your TV.

Disconnect all power sources before making any connections.

VCR must be connected and turned on to operate PIP (KV-32S45, 35S45 only).

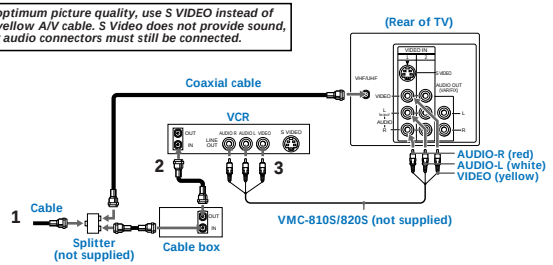


Connecting a VCR and TV with a cable box

You will need a splitter (not supplied) for the following connection.

1 Connect the single (input) jack of the splitter to your incoming cable connection. Connect the other two (output) jacks (using coaxial cable) to IN on your cable box and VHF / UHF on your TV.
2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
3 Using A / V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



Connecting and Installing the TV (continued)

DBS Connections

Connecting a DBS (Direct Broadcast Satellite) receiver

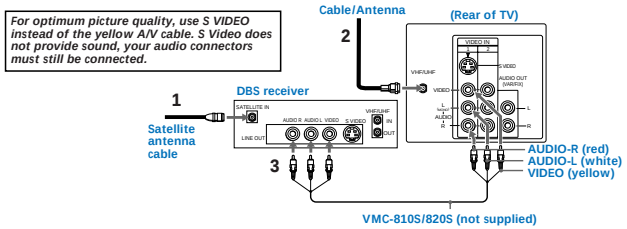
1 Connect the cable from your satellite antenna to your DBS receiver.
2 Attach the coaxial connector from your cable or antenna to VHF / UHF on your TV.
3 Using A / V connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your TV.

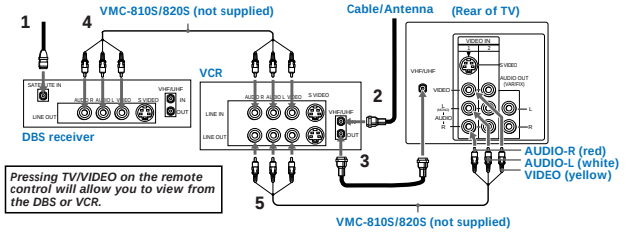
Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

1 Connect the cable from your satellite antenna to your DBS receiver.
2 Attach the coaxial connector from your cable or antenna to VHF / UHF IN on your VCR.
3 Using a coaxial connector, connect VHF / UHF OUT on your VCR to VHF / UHF on your TV.
4 Using A / V connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your VCR.
5 Using A / V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

Disconnect all power sources before making any connections.

For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.





Pressing TV/VIDEO on the remote control will allow you to view from the DBS or VCR.

Additional Connections

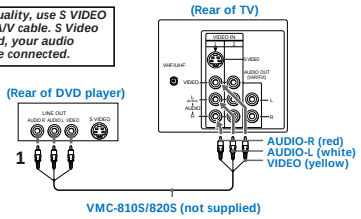
The following connections are for accessories that will enhance your viewing options.

Connecting a DVD Player

1 Using A / V connectors, connect LINE OUT on your DVD to VIDEO IN on your TV.

Disconnect all power sources before making any connections.

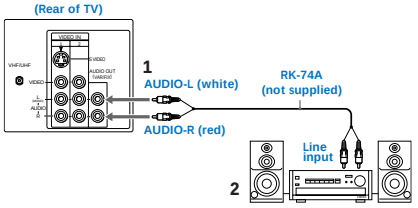
For optimum picture quality, use S VIDEO instead of the yellow A/V cable. S Video does not provide sound, your audio connectors must still be connected.



Connecting an audio system

For enhanced sound, connect your audio system to your TV.

1 Using AUDIO connectors, connect AUDIO OUT on your TV to one of the unused line inputs (e.g. TV, AUX, TAPE 2) on your stereo.
2 Set your stereo to the chosen line input. Refer to page 24 of this manual for additional audio setup instructions.



Connecting and Installing the TV (continued)

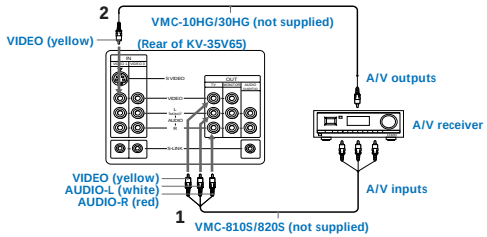
Connecting an A/V receiver

• KV-32V65, 35V65 only

1 Using A / V cables, connect TV OUT on your TV to TV IN on your A / V receiver.
2 Using a single video connector, connect Monitor OUT on your A / V receiver to VIDEO 1 IN on your TV.

Tip
You may want to use CHANNEL FIX to set your TV's input to the A/V receiver. See page 26.

Disconnect all power sources before making any connections.



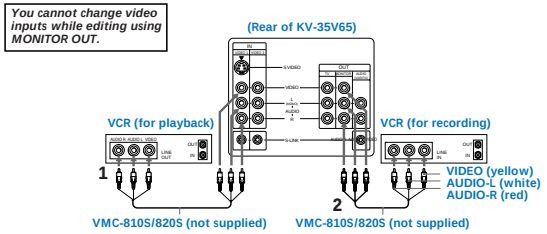
Connecting two VCRs

• KV-32V40, 32V65, 35V65 only

MONITOR OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

1 Connect the VCR intended for playback using the setup instructions on page 7 of this manual.
2 Using A / V connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.

You cannot change video inputs while editing using MONITOR OUT.



Connecting a camcorder

This connection is convenient for viewing a picture directly from your camcorder.

Using A / V connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on your TV.

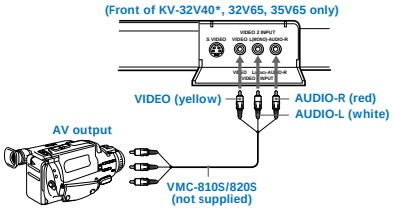
Connection can also be made directly to your A / V input located on the rear of your TV.

Note

- If you are connecting a monaural camcorder, connect only the single white audio output to the left input on your TV.

Disconnect all power sources before making any connections.

If you have an S VIDEO equipped camcorder, you can use an S Video cable for optimum picture quality.



*KV-32V40 does not have S VIDEO on the front panel.

S-Link connections

- **KV-32S65, 32V65, 35S65, 35V65 only**

S-Link is designed to allow your Sony components to "communicate".

Connecting S-Link to a VCR

S-Link will automatically power on the TV and switch to the correct video input when a tape is inserted in the VCR.

1. Using A / V connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.
2. Using an S-Link connector (mono mini plug), connect S-LINK / CONTROL S-IN on your VCR to S-LINK on your TV.

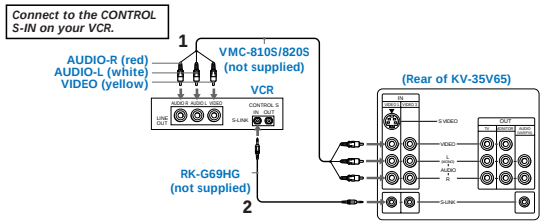
Connecting S-Link to a DBS

S-Link will automatically power on the TV and switch to the correct video input when you power on the DBS.

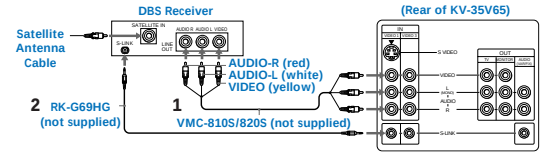
1. Using A / V connectors, connect AUDIO and VIDEO OUT on your DBS to AUDIO and VIDEO IN on your TV.
2. Using an S-Link connector (mono mini plug), connect S-LINK on your DBS to S-LINK on your TV.

Disconnect all power sources before making any connections.

Connect to the CONTROL S-IN on your VCR.



The S-Link connector must be in the same VIDEO-IN jacks as the A/V cables on your TV.



Programming the remote

You can use the supplied remote control to operate Sony or non-Sony video equipment.

1. Press CODE SET.
2. Press VTR / DVD (FUNCTION).
3. Use the 0-9 buttons to key in the manufacturer's code number from the following chart.
4. Press ENTER.

VCR code numbers

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305,338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314. 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To select a channel directly	Press the 0 – 9 buttons.
To change channels	Press CH +/–.
To record	Press ► and ● simultaneously.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press ❚❚. To resume normal playback, press again or press ►.
To scan	Press ▶▶ or ◀◀ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Tips

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- When you remove the batteries, the code number may revert to the factory setting.
- The code numbers for Sony VCR's are assigned at the factory as follows:

VHS VCR 301
(preset code for the supplied remote control)

8 mm VCR 302

Beta, ED Beta VCRs 303

MDP (Multi Disc Player) code numbers

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ❚❚. To resume normal playback, press again or press ►.
To scan	Press ▶▶ or ◀◀ during playback. To resume normal playback, press ►.
To search the chapter forward or backward	Press CH +/–.

Tip

If you will not be programming a DBS or cable box into the DBS / CABLE input, you can use it to program other video equipment (e.g. DVD, MDP, or second VCR). (see page 30)

DVD (Digital Versatile Disc) code numbers

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

Operating a DVD player	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press ❚❚. To resume normal playback, press again or press ►.
To scan	Press ▶▶ or ◀◀ during playback. To resume normal playback, press ►.
To search the chapter forward or backward	Press CH +/–.
To select chapters directly	0–9 + ENTER.
MENU	Press to display DVD menu.
To move cursor in menu	Use your arrow buttons ↑, ↓, ←, →.

Operating a Cable Box or DBS Receiver

Programming the remote

You can program the supplied remote control to operate a cable box or DBS receiver.

1 Press CODE SET.

2 Press DBS / CABLE (FUNCTION).

3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.

4 Press ENTER.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that were supplied with the equipment.

If the remote control doesn't work

- First, try repeating the setup procedures using the other codes listed for your equipment.

Tips

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's supplied remote control.
- Whenever you remove the batteries the code numbers may revert to the factory setting.

Cable box code numbers

Manufacturer	Code
Hamlin / Regal	222, 223, 224, 225, 226
Jerrold / G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

DBS receiver code numbers

Manufacturer	Code
Sony	801 (preset code for remote control)
General Electric	802
Hitachi	805
Hughes	804
Panasonic	803
RCA / PROSCAN	802, 808
Toshiba	806, 807

Troubleshooting

Consult the table below; it suggests solutions to specific problems.

Problem	What it could be	What you can do
Cannot operate single tuner PIP (KV-32S45, 35S45)	• VCR may not be connected to your TV properly. • VCR may not be turned on. • The remote control may not be programmed to operate the VCR.	• Ensure that you have set your VCR correctly. (see page 7) • Program your remote control to operate the VCR. (see page 30)
A red light keeps flashing on the TV for more than a few seconds	• Your TV may need service.	• Call your local Sony service center.
TV makes a noise when turned on	• This is a normal function of your TV.	
Screen is not lit and there is no sound	• Power cord may not be plugged in. • Batteries may not have been placed with the correct polarity. • TV / VIDEO setting may be incorrect.	• Press TV / VIDEO until you receive a channel.
Poor or no picture (screen lit), good sound	• VIDEO menu settings may not be adjusted correctly. • Antenna / cable connections may be faulty. • VIDEO LABEL inputs may be set to WEB. (This label darkens the screen for ideal WebTV viewing)	• Readjust your VIDEO menu settings.(see page 22) • Check your VIDEO LABEL settings. (see page 28)
Good picture, no sound	• Sound may be set to MUTING. • Your TV may be set to SAP. • Speaker may not be set correctly.	• Press MUTE. • Check the MTS setting in the AUDIO menu. (see page 23) • Check your SPEAKER settings. (see page 23)
No color	• Color settings may not be adjusted correctly.	• Adjust the COLOR settings in the VIDEO menu. (see page 22)

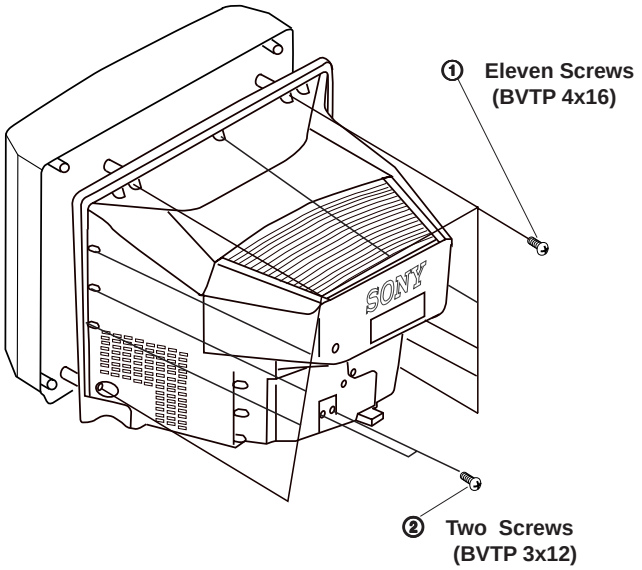
Problem	What it could be	What you can do
Only snow and noise appear on the screen	• CABLE may not be set correctly in the SET UP menu. • Antenna / cable connections may not be correct. • TV may be set to AUX mode.	• Ensure that you have selected the correct CABLE mode in the SET UP menu. (see page 26) • Press ANT on your remote control to change the input mode. (see page 16)
Cannot receive upper channels (UHF) when using an antenna	• CABLE setting may not be correct in the SET UP menu.	• Ensure that CABLE is set to OFF in the SET UP menu. (see page 26) • Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see page 26)
Cannot receive any channels when using cable	• CABLE setting may not be set correctly in the SET UP menu.	• Ensure that CABLE is set to ON in the SET UP menu. (see page 26) • Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (see page 26)
Cannot gain enough volume when using a cable box	• Volume may not be adjusted on your cable box.	• Press TV (FUNCTION) and adjust the TV's volume.
TV is fixed to one channel	• CHANNEL FIX settings may not be correct.	• Check your CHANNEL FIX settings. (see page 26)

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Direct Response Center at 1-800-222-SONY (7669). (U.S. residents only)

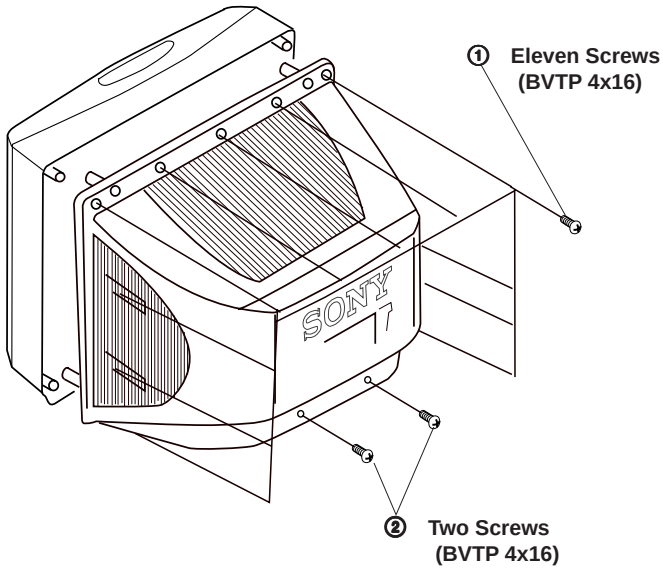
SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

(KV-32S40/34SL40/34SL40C/32S45/34SL45/34SL40T/ 32V40/32V65/34VL65/34VL65C)

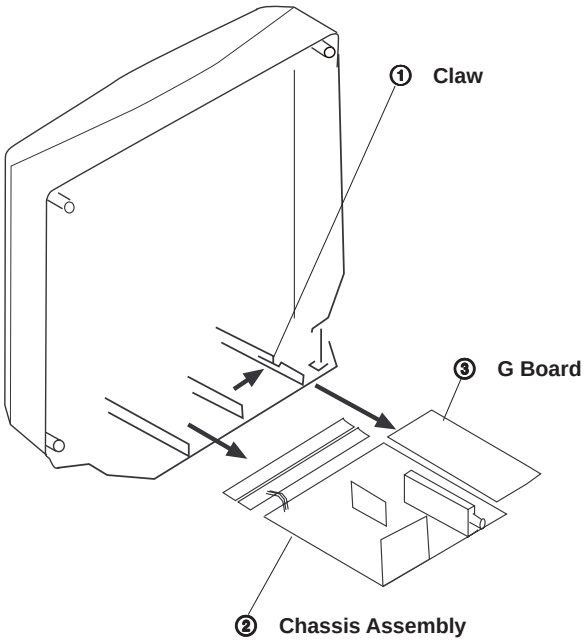


(KV-35S40/35S45/37SL45/37VL65/37VL65C)

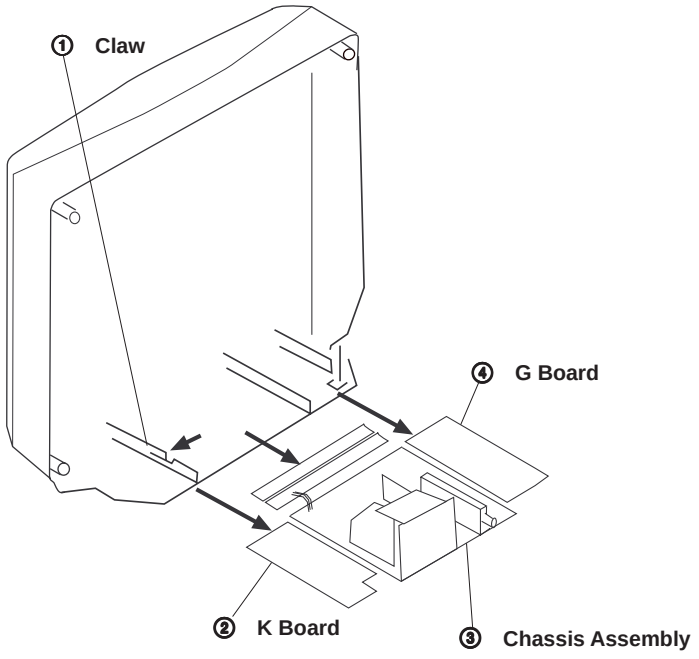


2-2. CHASSIS ASSEMBLY REMOVAL

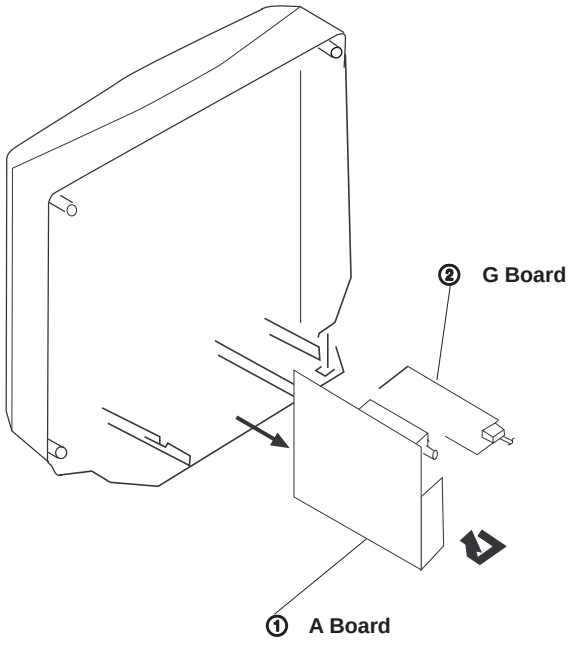
(KV-32S40/34SL40/34SL40C/32S45/ 34SL45/35S40/35S45/37SL45/34SL40T)



(KV-32V40/32V65/34VL65/34VL65C/35V65/ 37VL65/37VL65C)

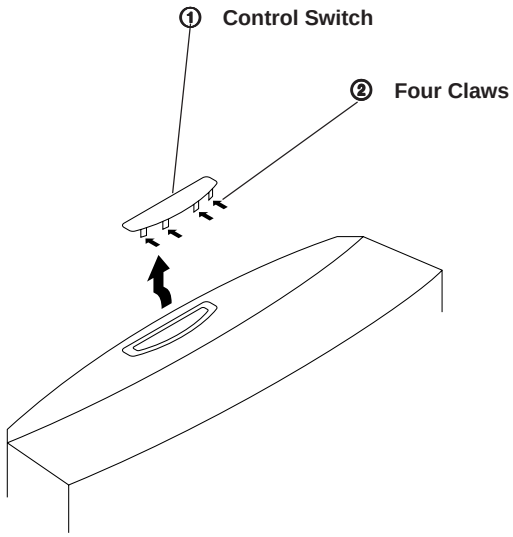


2-3. SERVICE POSITION



2-4. CONTROL SWITCH REMOVAL

(KV-32V65/34VL65/34VL65C/35VL65/35VL65C/37VL65C)



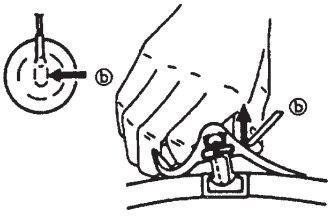
ANODE-CAP REMOVAL

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electrical shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.

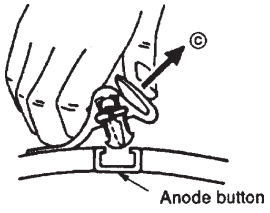
NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield or carbon painted on the CRT.

REMOVAL PROCEDURES

① Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.



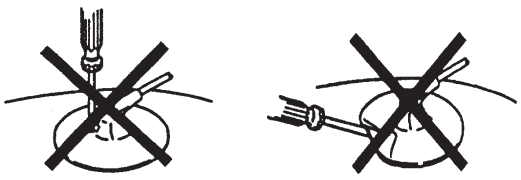
② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



③ When one side of the rubber cap separates from the anode button, the anode-cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE-CAP

① Do not use sharp objects which may cause damage to the surface of the anode-cap.
② Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.
③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.

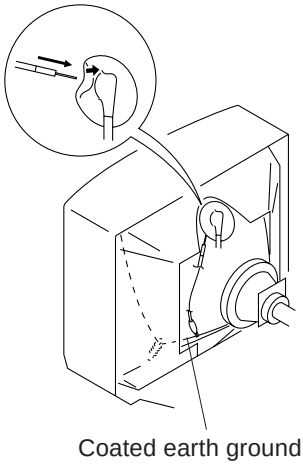


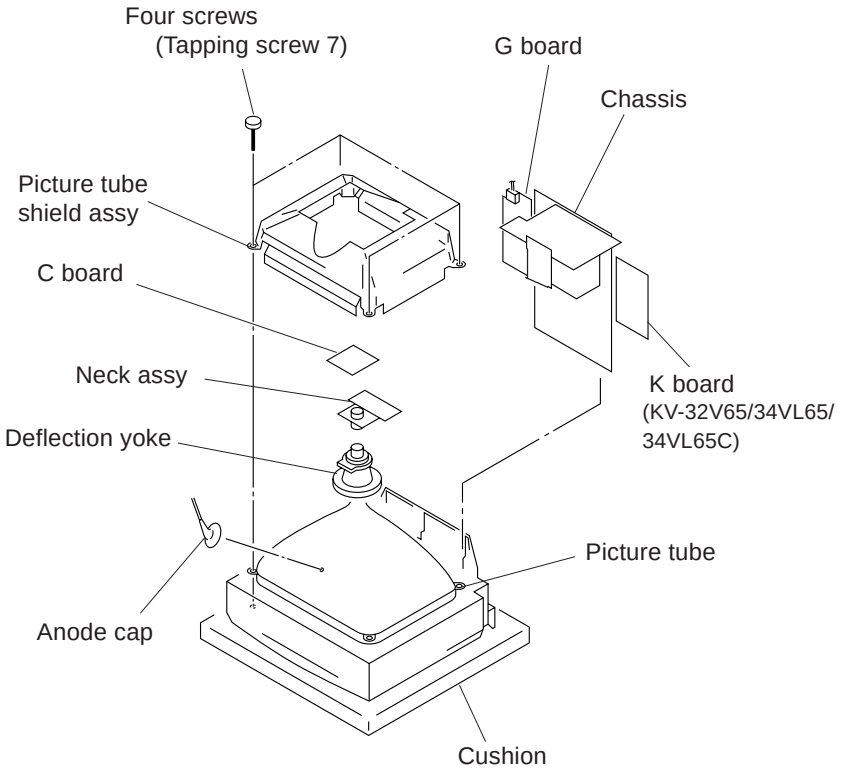
2-5-1. PICTURE TUBE REMOVAL (KV-32S40/34SL40/34SL40C/32S45/34SL45/34SL40T/32V40/32V65/34VL65/34VL65C)

WARNING -- Before removing anode cap:

High voltage remains in the CRT even after the power is disconnected.

To avoid electrical shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.



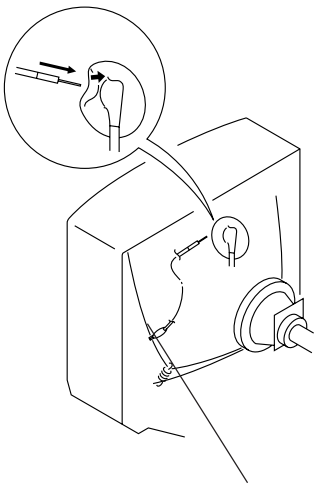


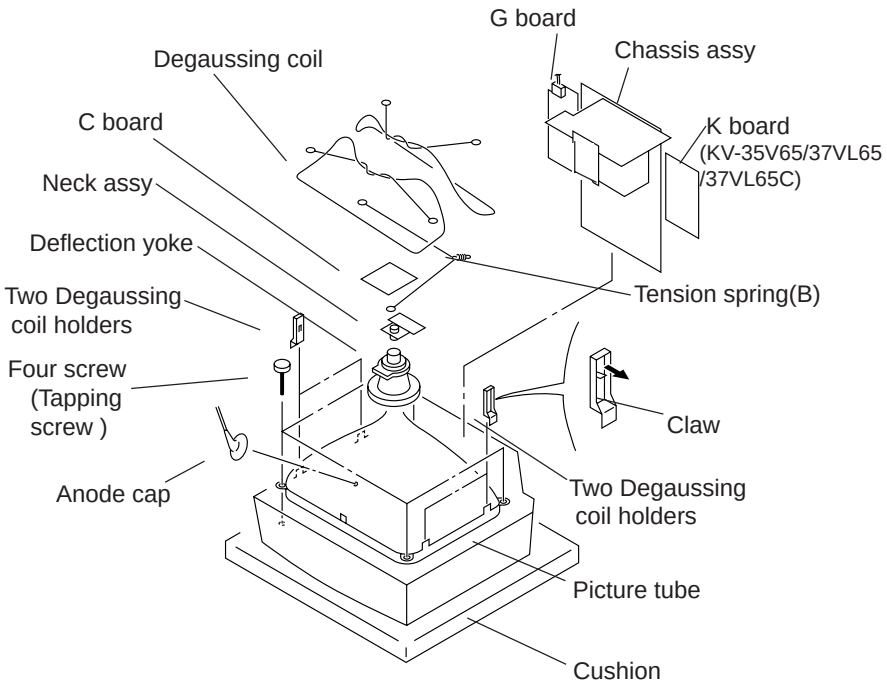
2-5-2. PICTURE TUBE REMOVAL (KV-35S40/35S45/37SL45/37VL65/37VL65C)

WARNING -- Before removing anode cap:

High voltage remains in the CRT even after the power is disconnected.

To avoid electrical shock, discharge CRT before attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.





SECTION 3
SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

PICTURE control ..... normal

BRIGHTNESS control ..... normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)/White Balance

Note: Test Equipment Required

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter

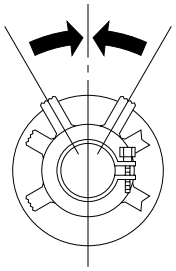
3-1. BEAM LANDING

Preparation:

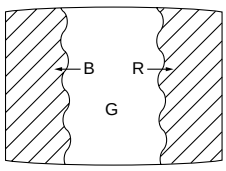
- Input a white pattern signal.
- Face the picture tube in a East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use the hand degausser because it magnetizes the CRT .

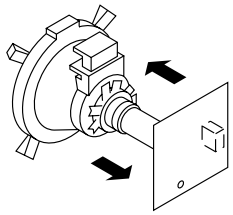
1. Input white pattern from pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



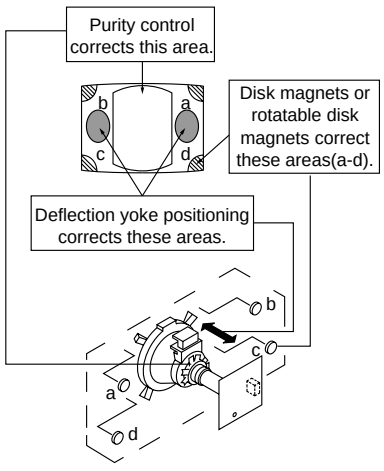
3. Input green pattern from pattern generator.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.



6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets.



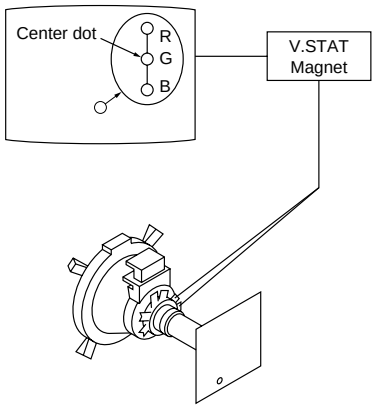
3-2. CONVERGENCE

Preparation:

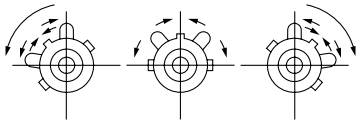
- Before starting, perform FOCUS, V. LIN and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Input dot pattern.

(1) Vertical and Horizontal Static Convergence

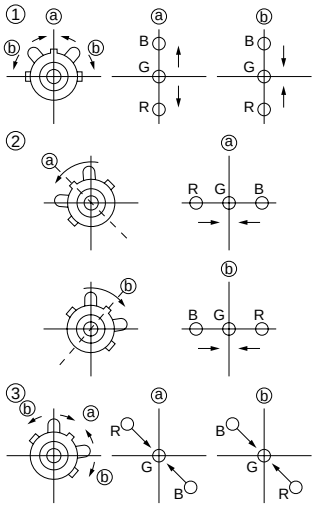
1. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)



Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



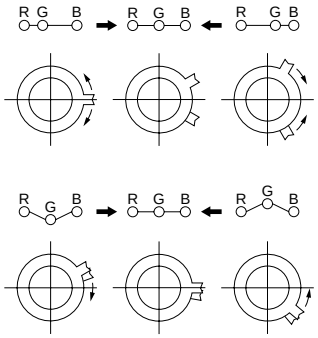
2. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green, and blue dots move as shown below:



Operation of BMC (Hexapole) Magnet

The respective dot positions resulting from moving each magnet interact, so perform adjustment while tracking.

Use the VSTAT tabs to adjust the red, green, and blue dots so they line up at the center of the screen (move the dots in a horizontal direction.)

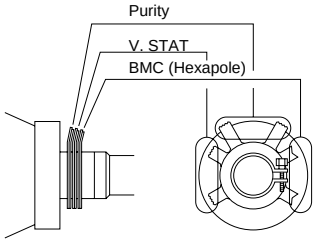


Y Separation Axis Correction Magnet Adjustment

1. Input cross-hatch pattern, adjust PICTURE to minimum and BRIGHTNESS to normal.

2. Adjust the deflection yoke upright so it touches the CRT.

3. Adjust so that the Y separation axis correction magnet on the neck assembly is symmetrical from top to bottom (open state).

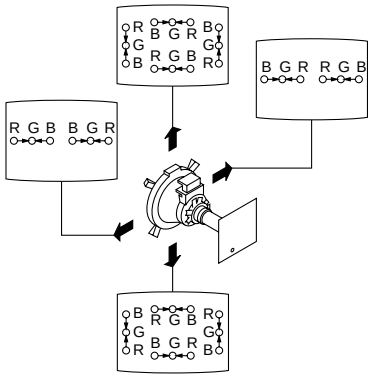


4. Return the deflection yoke to its original position.

(2) Dynamic Convergence Adjustment

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

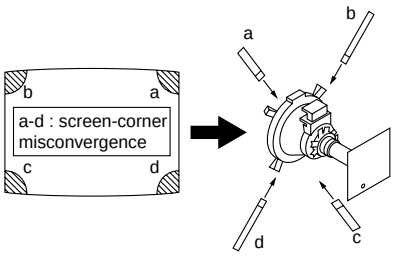
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below:



4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

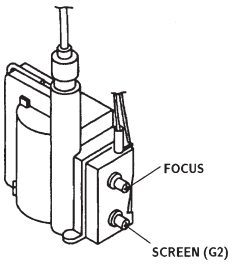
(3) Screen-corner Convergence

Affix a permalloy assembly corresponding to the misconverged areas:



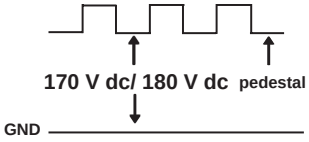
3-3. FOCUS

Adjust FOCUS control for best picture.



3-4. SCREEN (G2)

1. Input dot pattern from the pattern generator.
2. Set the PICTURE and BRIGHT controls at normal.
3. Adjust S BRT, G CUT, B CUT in service mode with an oscilloscope so that voltages on the red, green, and blue cathodes are 170Vdc for 35"/37" and 180Vdc for 32"/34".
4. Observe the screen and adjust SCREEN (G2) VR to obtain the faintly visible background of dot signal.



3-5. WHITE BALANCE ADJUSTMENTS

NO.	Disp.	Item	Avg/32"	Avg/35"
16	GDRV	Green Drive	33	45
17	BDRV	Blue Drive	33	45
18	GCUT	Green Cut-off	3	6
19	BCUT	Blue Cut-off	2	6
23	SBRT	Sub Bright	14	10

1. Input an entire white signal.
2. Set to Service adjustment Mode.
3. Set DCOL to "0"
4. Set the PICTURE and BRIGHT to minimum.
5. Adjust with SBRT if necessary.
6. Select GCUT and BCUT with 1 and 4 .
7. Adjust with 3 and 6 for the best white balance.
8. Set the PICTURE and BRIGHT to maximum.
9. Select GDRV and BDRV with 1 and 4 .
10. Adjust with 3 and 6 for the best white balance.
11. Reset DCOL to "1".
12. Write into the memory by pressing MUTING then ENTER **.

SECTION 4
SAFETY RELATED ADJUSTMENTS

⧓ R530, R531 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

Always perform the following adjustments when replacing the following components marked with a ◪ mark on the schematic diagram:

A BOARD:	IC351, IC501, D519, D520, D521, C531, C532, R387, R529, R530, R531, R532, R533, R550, T503
G BOARD:	IC643, R661

Step 1 Preparation before Confirmation

Turn the POWER switch ON.

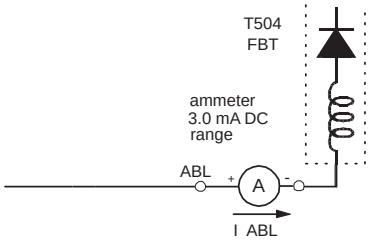
Input a white signal and set the PICTURE and BRIGHT controls to maximum.

Confirm that the voltage at the check terminal of TP85 is more than 18.0 V DC when the set is operating normally.
At AC input: 120.0 ± 2.0 VAC
or 220.0 ± 2.0 VAC (for 34SL40C/34VL65C/37VL65C only)

Step 2

Input a white signal and verify that I ABL is within the specified range: 2160 ± 100 µA.

At AC input: 120.0 ± 2.0 VAC
or 220.0 ± 2.0 VAC (for 34SL40C/34VL65C/37VL65C only)



Step 3

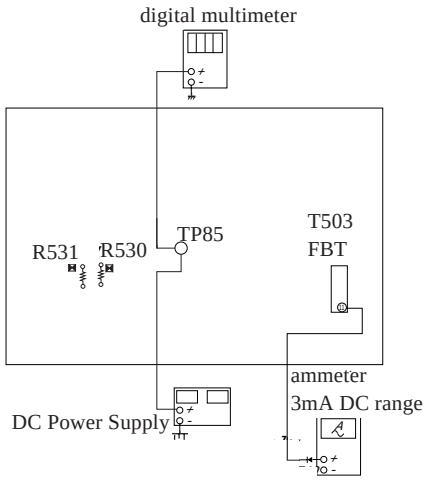
Record the voltage between TP85 and ground.

Step 4

Using an external DC power supply, apply voltage between TP85 and ground.

Increase the voltage gradually and confirm that the holdown works (raster disappears) at lower than the voltage recorded in Step 3.

Lower than 22.05 V DC
At AC input: 120.0 ± 2.0 VAC
or 220.0 ± 2.0 VAC (for 34SL40C/34VL65C/37VL65C only)



A BOARD - CONDUCTOR SIDE

Step 5

Confirm that a voltage of more than 18.0 V DC appears between TP85 and ground.

At AC input: 120.0 ± 2.0 VAC
or 220.0 ± 2.0 VAC (for 34SL40C/34VL65C/37VL65C only)

B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

Always perform the following adjustments when replacing the following components marked with ◪ on the schematic diagram:

G BOARD: IC643, R661

1) Using Variac, apply AC input voltage: 130 ± 2.0 VAC (or 220.0 ± 2.0 VAC for 34SL40C/34VL65C/37VL65C only)
2) Input a monoscope signal.
3) Set the PICTURE control and the BRIGHT control to initial reset value.
4) Confirm the voltage of G BOARD CN641 between pin ① to ground is less than 135.5 ± 1.0 V DC.
5) If step 4 is not satisfied, replace the R661and repeat the above steps.

SECTION 5
CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use Remote Commander (RM-Y167) to perform the following circuit adjustments:

NOTE : Test Equipment Required:

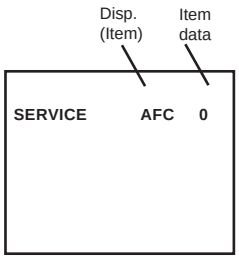
1. Pattern Generator
2. Frequency Counter
3. Digital Multimeter
4. Audio OSC

(1) Method of Setting the Service Adjustment Mode

SERVICE MODE PROCEDURE

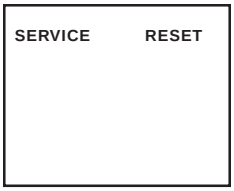
1. Standby mode. (Power off)
2. DISPLAY → 5 → VOL (+) → POWER on the Remote Commander.
   (Press each button within a second.)

SERVICE ADJUSTMENT MODE IN



3. The CRT displays the item being adjusted.
4. Press 1 or 4 on the Remote Commander to select the item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. Press MUTING then ENTER to write into memory**.

SERVICE ADJUSTMENT MODE MEMORY

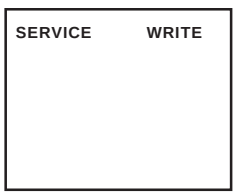


MUTING Green

↓

ENTER Red

7. Press 8 then ENTER on the Remote Commander to initialize.



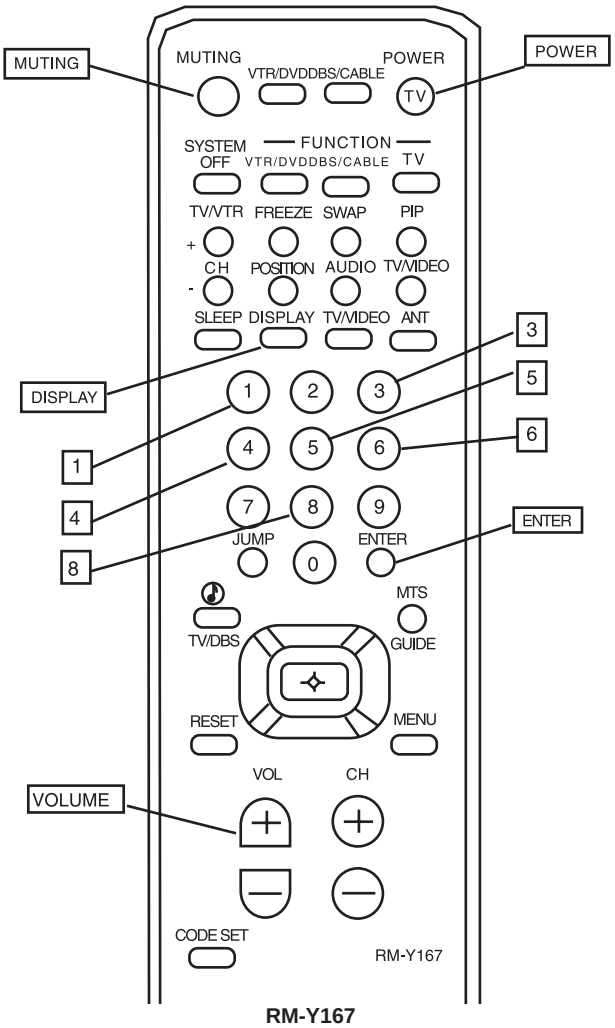
Carry out step 7 when adjusting IDs 0 to 4 and when replacing and adjusting IC002.

8. Turn set off and on to exit. * CAUTION: Wait at least 10 seconds before turning off set.

(2) Memory Write Confirmation Method

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

(3) Adjust Buttons and Indicator



RM-Y167

**WARNING: Do NOT turn off the power or AC immediately after pressing MUTING then ENTER. Wait at least 10 seconds.

(4) Service Data

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data	Average Data**					Comments
						32"			35"		
						A	B	C	D	E	
		VP CXA2095S									
1	VPOS	V-Position	0-63	*Adj*	20	23			27		0:Down, 63:Up
2	VSIZ	V-Size	0-63	*Adj*	20	27			26		0:Min, 63:Max
3	VCOM	V-Compensation	0-3	Fix	1	1					0:Min, 3:Max
4	VLIN	V-Linearity	0-15	*Adj*	7	9					0:Min, 15:Max
5	VSCO	S-Correction	0-15	*Adj*	7	6			9		0:Min, 15:Max
6	HPOS	H-Position	0-15	*Adj*	7	11			10		0:Right, 15:Left
7	HSIZ	H-Size	0-63	*Adj*	20	23			28		0:Min, 63:Max
8	PAMP	Pin Compensation	0-63	*Adj*	31	27			24		0:Min, 63:Max
9	UPIN	Upper Corner Pin	0-15	*Adj*	7	4			7		0:Min, 15:Max
10	LPIN	Lower Corner Pin	0-15	*Adj*	7	6			10		0:Min, 15:Max
11	PPHA	Pin Phase	0-15	*Adj*	7	4			5		0:Min(small picture), 15:Max
12	AFC	AFC	0-3	Fix	2	2					0:Freerun, 1:Min, 3:Max
13	VBOW	AFC Bow	0-15	*Adj*	7	6			5		0:Right, 15:Left
14	VANG	AFC Angle	0-15	*Adj*	7	6			4		0:Right, 15:Left
15	REF	Reference Line	0-3	Fix	2	2					0:22H(Rch), 3:16H(Rch)
16	GDRV	Green Drive	0-63	*Adj*	31	22			35		0:Min, 63:Max
17	BDRV	Blue Drive	0-63	*Adj*	31	30			26		0:Min, 63:Max
18	GCUT	Green Cutoff	0-15	*Adj*	7	5			8		0:Min, 15:Max
19	BCUT	Blue Cutoff	0-15	*Adj*	7	7			6		0:Min, 15:Max
20	SCON	Sub Contrast	0-15	*Adj*	7	10			8		0:Min, 15:Max
21	SHUE	Sub Hue (RF only)	0-15	*Adj*	7	7 (flat-1)			8 (flat-1)		0:+10deg, 15:-10deg
22	1SHU	Sub Hue (composite & S-video)	0-15	*Adj*	7	7			7		0:+10deg, 15:-10deg
23	SCOL	Sub Color (RF only)	0-15	*Adj*	7	11 (flat+2)			9 (flat+2)		0:Min, 15:Max
24	1SCO	Sub Color (composite & S-video)	0-15	*Adj*	7	14			13		0:Min, 15:Max
25	SBRT	Sub Brightness	0-63	*Adj*	31	26					0:Min, 63:Max
26	SSHP	Sub Sharpness (RF & Composite video)	0-15	Fix by model	7	8			8		0:Min, 15:Max
27	1SSP	Sub Sharpness (S-video only)	0-15	Fix by model	7	10			10		0:Min, 15:Max
28	GMMA	Gamma Correction	0-3	Fix by model	1	0			0		0:Off, 1:Min, 3:Max
29	CDM2	Countdown Mode 2	0-1	Fix	0	0					0: Normal 1: High Speed Countdown Response
30	EYSW	External Y Switch	0-1	Fix	0	0					0: Normal 1: EYin disabled
31	DPIX	Dynamic Picture	0,1	Fix	1	1					0:Off, 1:On
32	Y-DC	DC Transmission Ratio	0,1	Fix	1	1					0:100%, 1:82%
33	ABLM	ABL Mode	0,1	Fix	1	1					0:PictureABL, 1:Picture/BrightnessABL
34	AXIS	Color Demodulation Axis	0,1	Fix	1	1					0:Japan, 1:US
35	NOTC	Chroma Trap Filter	0,1	Fix	0	0					0:Off, 1:On
36	CROM	Chroma Trap Adjust	0-15	Fix	7	7					0:+300kHz, 1:-300kHz
37	TOT	TOT Filter (RF only)	0,1	Fix	1	1					0:Off, 1:On
38	1TOT	TOT Filter (Composite & S-video)	0,1	Fix	1	0					0:Off, 1:On
39	PREL	Pre/Overshoot Ratio (RF & Composite)	0-3	Fix by model	3	1					0: 2:1, 3: 5:1
40	1PRE	Pre/Overshoot Ratio (S-video only)	0-3	Fix by model	3	3					0: 2:1, 3: 5:1
41	SHPF	Sharpness fo (RF & Composite)	0-3	Fix by model	2	1					0:2.5MHz, 3:4.0MHz
42	1SPF	Sharpness fo (S-video only)	0-3	Fix by model	2	3					0:2.5MHz, 3:4.0MHz
43	RON	Red Off	0,1	Fix	1	1					0:Off, 1:On
44	GON	Green Off	0,1	Fix	1	1					0:Off, 1:On
45	BON	Blue Off	0,1	Fix	1	1					0:Off, 1:On
46	DCOL	Dynamic Color	0,1	Fix	0	1					0:Off, 1:On
47	CDMD	V Countdown Mode	0,1	Fix	0	0					0:Auto, 1:Fix
48	HBSW	H Blanking Switch	0,1	Fix	0	0					0:Off, 1:On
49	LBLK	Left Blanking	0-15	Fix	0	7					0:Min, 15:Max
50	RBLK	Right Blanking	0-15	Fix	0	7					0:Min, 15:Max
		AP CXA2021									
51	SVOL	Sub Volume	0-15	Fix	0	6					0:-0 Volume steps, 15:-15 Volume steps
52	SBAL	Sub Balance	0-15	*Adj*	7	7					0: +Right, 15:+Left
53	SBAS	Sub Bass	0-15	Fix by model	7	10	8		10	8	0:-7 Steps, 15: +8 steps
54	STRE	Sub Treble	0-15	Fix by model	7	7	10		7	10	0:-7 Steps, 15: +8 steps
		MM1311/1313									
55	AUSW	Audio Att Sw	0,1	Fix	1	1					0:-6dB, 1:0dB (Only for VIDEO input)

**AVERAGE DATA MODEL GROUPINGS:

32"/34"	A: KV-32S40/32S45/34SL40/34SL40C/34SL40T/34SL45	35"/37" D: KV-35S40/35S45/37SL45
	B: KV-32V40	E: KV-35V65/37VL65/37VL65C
	C: KV-32V65/32VL65/34VL65C	

Service Data (cont.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data	Average Data**					Comments
						32"			35"		
						A	B	C	D	E	
		PI SDA9288									
56	PYSD	Select Delay	0-15	Fix by P-bd	3	3					0:Right, 15:Left
57	PIPH	PIP H-position	0-127	Fix	78	78					0:Right, 127:Left
58	PIPV	PIP V-position	0-63	Fix	18	18					0:Up, 63:Down
59	PYDL	PIP Y-delay	0-7	Fix	0	0					0:Right, 7:Left
60	PHDL	H-pulse delay	0-15	Fix by P-bd	3	0					0:Right, 15:Left
61	PMVD	Main V-pulse delay	0-31	Fix	16	16					7-21: Available (1-6/22-31 Not Avail)
62	PIVD	Inset V-pulse delay	0-31	Fix	22	22					16-28 Available (1-15/29-31 Not Avail)
63	PCON	Inset Contrast	0-15	Fix	7	7					0:Min, 15:Max
64	FRMY	Frame Y	0-15	Fix	7	7					0:Dark, 15:Bright
65	CHRI	Input Polarity	0,1	Fix by P-bd	1	1					0:+(B-Y)+(R-Y), 1:-(B-Y)-(R-Y)
66	CHRO	Output Polarity	0,1	Fix	1	1					0:+(B-Y)+(R-Y), 1:-(B-Y)-(R-Y)
67	IPER	Inset Pedestal R-Y	0-15	Fix	0	0					0:Center, 7:Max, 8:Min
68	IPEB	Inset Pedestal B-Y	0-15	Fix	0	0					0:Center, 7:Max, 8:Min
69	PCPS	CLPS Bit Control	0,1	Fix	0	0					0:Depend on HSIDEL, 1:Not depend
70	PCPF	CLPFIX Bit Control	0,1	Fix	0	0					0: 3Clamp line, 1: 2Clamp line
71	PSEL	SELDOWN Bit Control	0,1	Fix by P-bd	1	1					0:Open out, 1:TTL out
72	PPLL	PLL Filter Bits	0-3	Fix	0	0					Fixed value only
73	PVNR	VSPISQ VSP NR	0-1	Fix	0	1					SDA9288 IC bypass use 1
		IC CXA2019									
74	ISCO	CDec Sub Contrast	0-15	Fix	7	15					PiP sub contrast
75	ISHP	CDec Sharpness	0-15	Fix	7	8					PiP sharpness
76	ISCL	CDec Sub Color	0-15	Fix	7	9					PiP sub color
77	ISHU	CDec Sub Hue	0-15	Fix	7	6					PiP sub hue
78	ITOT	CDec TOT on	0,1	Fix	0	1					PiP TOT 0:Off, 1:On
79	IAFC	CDec AFC	0-3	Fix	2	2					0:Max, 2:Min, 3:Freerun
80	ICD2	CDec Countdown Mode2	0,1	Fix	0	0					0:Standard, 1:Fast
81	IYDR	CDec Y drive	0-31	Fix	15	7					PiP Y-drive gain
82	IVPE	CDec V pedestal	0-15	Fix	7	6					PiP V-ped DC
83	IUPE	CDec U pedestal	0-15	Fix	7	6					PiP U-ped DC
84	IRVP	CDec RV pedestal	0-15	Fix	7	6					PiP V-ped DC (re-input)
85	IRUP	CDec RU pedestal	0-15	Fix	7	6					PiP U-ped DC (re-input)
86	IDCT	CDec DC transfer	0-7	Fix	2	0					PiP DC transfer 0:Max, 7:Min
87	IRYD	CDec RY drive	0-31	Fix	15	20					PiP RY Drive (re-input)
88	IABO	CDec ABL off	0,1	Fix	1	1					PiP ABL (RY-OUT) 0:On, 1:Off
89	IPRE	CDec Pre/Over shoot	0-3	Fix	3	3					PiP Pre/over shoot 0: 1:1, 1: 4:1
90	IRUD	CDec RU Drive	0-31	Fix	15	20					PiP RU-gain out 0:-6dB, 31:+3.3bD
91	IABL	CDec ABL	0,1	Fix	1	1					PiP ABL gain 0:Std, 1:Min
92	IABC	CDec ABL Cent	0-3	Fix	1	1					PiP ABL Center 0:Min, 1:Max
93	IRVD	CDec RV drive	0-31	Fix	15	17					PiP RY Drive (re-input)
94	IDLY	CDec Delay	0-3	Fix	0	0					PiP Y-delay 0:0ns, 1:60ns, 2:120ns, 3:180ns
95	ISCR	CDec SCP BGR	0-3	Fix	0	0					PiP SCP riseup phase 0:+0.4us, 1:cent, 2:-0.8us
96	ISCF	CDec SCP BGF	0-3	Fix	0	0					PiP SCP falldown phase 0:+0.4us, 1:cent, 2:-0.8us
		CC CXP8584a-011s									
97	CRIL	CC CRI count low	0-15	Fix	2	2					7 Clock Run-In Lower Limit (field 1)
98	CFLD	CC Caption Fixed Field Count		Fix	5	5					Fixed value only
99	CCDI	CC CCD int	0-7	Fix	3	3					Fixed value only
100	CRIP	CC CRI & polarity	0-7	Fix	4	4					Fixed value only
101	CRIT	CC CRI time constant	0-3	Fix	1	1					Fixed value only
102	CSB1	CC Sync Slice Bias 1	0-3	Fix	3	3					Fixed value only
103	CSB2	CC Synce Slice Bias 2	0-7	Fix	4	4					Fixed value only
104	CREP	CC CRI signal end position	0-255	Fix	142	142					Fixed value only
105	CDSD	CC Data start delay	0-31	Fix	8	8					Fixed value only
106	CCDS	CC Caption data threshold	0-31	Fix	9	9					Fixed value only
107	CHMK	CC P8_HMASK	0-63	Fix	42	42					Hmask
108	CHSY	CC P8_HSYC	0-255	Fix	136	136					Hsyc
109	DISP	TV OSD H Position	0-63	*Adj*	1	23					0:Off, 1:Left, 63: Right
110	RTCO	Rotation Coil	0-63	Fix	32	32					Fixed value only

**AVERAGE DATA MODEL GROUPINGS:

32"/34" A: KV-32S40/32S45/34SL40/34SL40C/34SL40T/34SL45	35"/37" D: KV-35S40/35S45/37SL45
B: KV-32V40	E: KV-35V65/37VL65/37VL65C
C: KV-32V65/32VL65/34VL65C	

Service Data (cont.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data	Average Data** 32" A	32" B	32" C	35" D	35" E	Comments
		ID MAP									
111	ID-0	ID-0 (Language/Color Systems)	0-255	Fix by model	89	refer to NVM ID Chart					See ID map
112	ID-1	ID-1 (Input/Output Conifguration)	0-255	Fix by model	55						See ID map
113	ID-2	ID-2 (Audio)	0-255	Fix by model	175						See ID map
114	ID-3	ID-3 (OSD/Timer/V-chip/Ch Fix)	0-255	Fix by model	0						See ID map
115	ID-4	ID-4 (CC/Spot Killer/etc)	0-255	Fix by model	155						See ID map
116	ID-5	ID-5 (V-series Features/etc)	0-255	Fix by model	141						See ID map
117	ID-6	ID-6 (PiP/Ant Sw related)	0-255	Fix by model	6						See ID map
118	ID-7	ID-7 (Special Models/etc)	0-255	Fix by model	0						See ID map

**AVERAGE DATA MODEL GROUPINGS:

32"/34"	A: KV-32S40/32S45/34SL40/34SL40C/34SL40T/34SL45	35"/37" D: KV-35S40/35S45/37SL45
	B: KV-32V40	E: KV-35V65/37VL65/37VL65C
	C: KV-32V65/32VL65/34VL65C	

SERVICE IDO 25

Note: Items 1-118 show adjustment order

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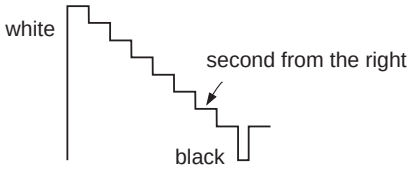
(5) Feature ID Map

	KV-	DESTINATION	ID-0	ID-1	ID-2	ID-3	ID-4	ID-5	ID-6	ID-7
1	**32S40**	(US/CND)	89	17	31	10	27	129	0	0
2	**32S45**	(US/CND)	89	21	31	10	27	129	1	0
3	**32V40**	(US/CND)	89	23	175	10	27	129	0	0
4	**32V65**	(CND)	89	55	175	10	27	141	6	0
6	**35S40**	(US/CND)	89	21	31	10	155	129	6	0
7	**35S45**	(US/CND)	89	21	31	10	155	129	1	0
8	**35V65**	(CND)	89	55	175	10	155	141	6	0
9	**34SL40C**	(E)	25	17	159	74	59	129	0	0
10	**34VL65C**	(E)	25	55	175	74	59	141	6	0
11	**37VL65C**	(E)	25	55	175	74	187	141	6	0
12	**34SL40**	(E)	25	17	159	74	59	129	0	0
13	**34SL45**	(E)	25	21	159	74	59	129	1	0
14	**34VL65**	(E)	25	55	175	74	59	141	6	0
15	**37SL45**	(E)	25	21	159	74	187	129	1	0
16	**37VL65**	(E)	25	55	175	74	187	14	6	0
17	**34SL40T**	(TAIWAN)	9	17	159	10	27	129	0	0

SUB BRIGHT ADJUSTMENT (SBRT)

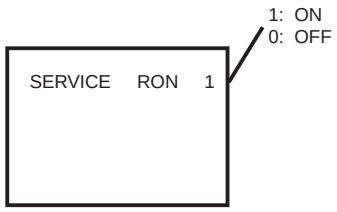
1. Set to Service adjustment Mode.
2. Input a gray scale pattern signal.
3. Set the PICTURE to minimum, and BRIGHT to normal.
4. Select SBRT with [1] and [4] .
5. Adjust SUB BRIGHT level with [3] and [6] so that the stripe second from the right is faintly visible.
6. Write into the memory by pressing [MUTING] then [ENTER]**.



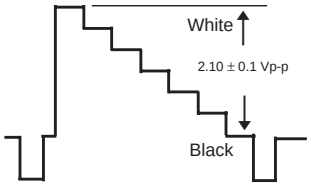
SUB CONTRAST ADJUSTMENT (SCON)

1. Input a color-bar signal.
2. Set to Service adjustment Mode.
3. Select the item DCOL to "0" level.
4. Set the conditions as follows.

PICTURE	. . . . .	MAX
COLOR	. . . . .	MIN
BRIGHT	. . . . .	CENTER
R ON	. . . . .	ON (1)
G ON	. . . . .	OFF (0)
B ON	. . . . .	OFF (0)



5. Connect an oscilloscope probe to C Board, CN1761 pin ① (RED OUT).
6. Select SCON with [1] and [4] .
7. Adjust with [3] and [6] for: 2.10 ± 0.01 Vp-p.

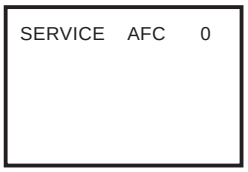


8. Reset the item DCOL to "1" level.
9. Write the memory by pressing [MUTING] then [ENTER]** .
10. Return the following back to normal after adjustment.

PICTURE	. . . . .	MAX
COLOR	. . . . .	CENTER
BRIGHT	. . . . .	CENTER
R ON	. . . . .	ON (1)
G ON	. . . . .	ON (1)
B ON	. . . . .	ON (1)

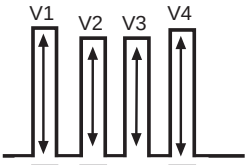
DISPLAY POSITION ADJUSTMENT (DISP)

1. Input a color-bar signal.
2. Set to Service adjustment Mode.
3. Select DISP with [1] and [4] .
4. Adjust with [3] and [6] for adjustment of characters to center .
5. Write the memory by pressing [MUTING] then [ENTER]**.



SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

1. Input a color-bar signal.
2. Set to Service adjustment Mode.
3. Connect oscilloscope probe to C Board, CN1761 Pin③ (BLUE OUT).
4. Select SHUE and SCOL with [1] and [4] .
5. Adjust with [3] and [6] for the V1 = V4 ± 0.1Vp-p (SCOL) and V2 = V3 ± 0.1Vp-p (SHUE).



6. Change data according to the following table;

	SCOL	SHUE
32"	+2 steps	-1 steps
35"	+2 steps	-1 steps

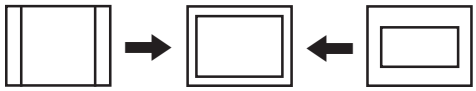
7. Write into the memory by pressing [MUTING] then [ENTER] **.

**WARNING: Do NOT turn off the power or AC immediately after pressing [MUTING] then [ENTER]. Wait at least 10 seconds.

V. SIZE ADJUSTMENT (VSIZ)

1. Input a cross-hatch signal.
2. Set to Service adjustment mode.
3. Select VSIZ with 1 and 4 .
4. Adjust with 3 and 6 for the best vertical size.
5. Write into the memory by pressing MUTING then ENTER**.

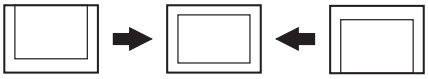
V. SIZE



V. POSITION ADJUSTMENT (VPOS)

1. Input a cross-hatch signal.
2. Set to Service adjustment Mode.
3. Select VPOS with 1 and 4 .
4. Adjust with 3 and 6 for the best vertical center.
5. Write into the memory by pressing MUTING then ENTER**.

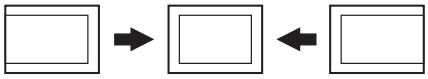
V. POSITION



H. POSITION ADJUSTMENT (HPOS)

1. Input a cross-hatch signal.
2. Set the Service adjustment Mode.
3. Select HPOS with 1 and 4 .
4. Adjust with 3 and 6 for the best horizontal center.
5. Write into the memory by pressing MUTING then ENTER**.

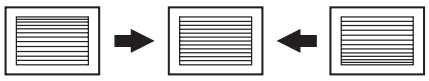
H. POSITION



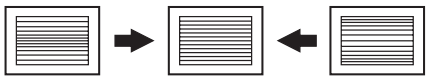
V LINEARITY (VLIN), V CORRECTION (VSCO), PIN AMP (PAMP) AND PIN PHASE (PPHA) ADJUSTMENTS

1. Input a cross-hatch signal.
2. Set to Service adjustment Mode.
3. Select VLIN, VSCO, PAMP, and PPHA with 1 and 4 .
4. Adjust with 3 and 6 for the best picture.
5. Write the memory by Pressing MUTING then ENTER** .

V LINEARITY(VLIN)

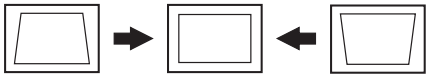


VS CORRECTION (VSCO)



PIN AMP (PAMP)

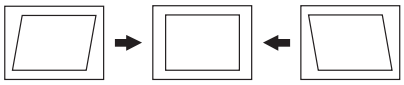
PIN PHASE (PPHA)



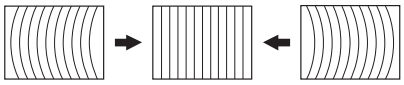
V ANGLE (VANG), V BOW (VBOW), UPPER PIN (UPIN) AND LOW PIN (LPIN) ADJUSTMENTS

1. Input a cross hatch signal.
2. Set to Service adjustment Mode.
3. Select VVANG, VBOW, UPIN, and LPIN with 1 and 4 .
4. Adjust with 3 and 6 for the best picture.
5. Write the memory by Pressing MUTING then ENTER** .

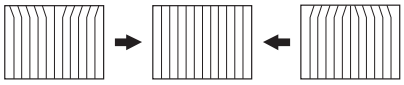
V ANGLE (VANG)



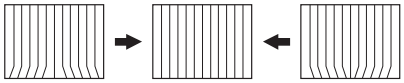
V BOW (VBOW)



UPPER PIN (UPIN)



LOW PIN (LPIN)



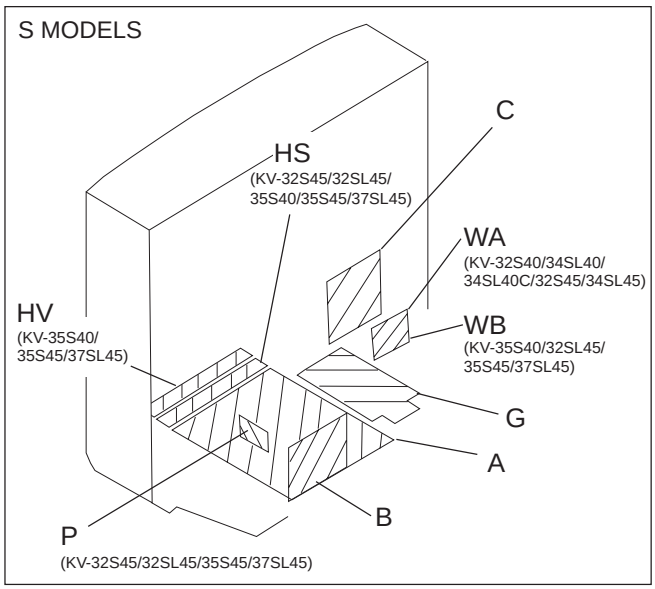
P BOARD ADJUSTMENTS

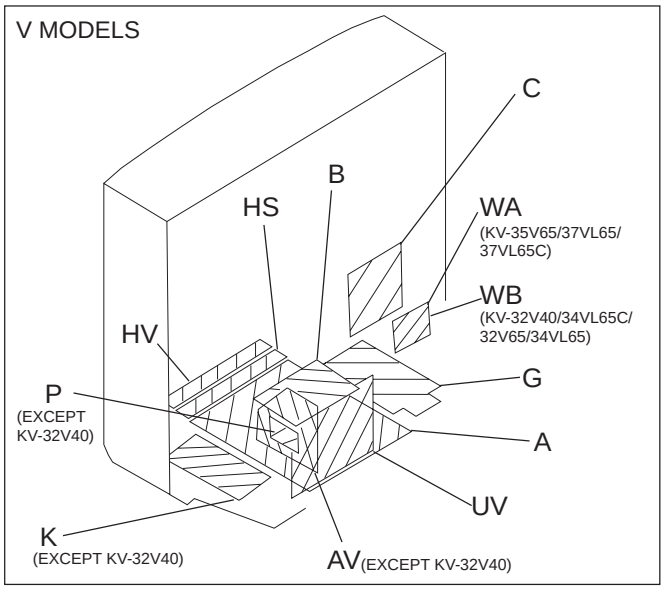
PIP V. POSITION (PIPV), PIP H. POSITION (PIPH)

1. Input a color bar signal.
2. Set to service adjustment mode.
3. Select PHOP with 1 and 4 .
4. Adjust with 3 and 6 for the best balanced position at four corner P in P display position.
5. Adjust P in P put at lower right position.
6. Write the memory by Pressing MUTING then ENTER**.

**WARNING: Do NOT turn off the power or AC immediately after pressing MUTING then ENTER. Wait at least 10 seconds.

6-3. CIRCUIT BOARDS LOCATION





6-4. PRINTED WRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
  KΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : 1/4 W

- 1/4 W in resistance, 1/10 W and 1/8 W in chip resistance.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved. (Refer to R530 and R531 adjustment on Page 15.)
- When replacing the part in below table, be sure to perform the related adjustment.
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are DC with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.

Part replaced(◪)	Adjustment(⋈)
IC351,IC501,D519,D520,D521 C531,C532,R387,R529,R530,R531, R532,R533,R550,T503.....A BOARD IC643,R661.....G BOARD	R530,R531

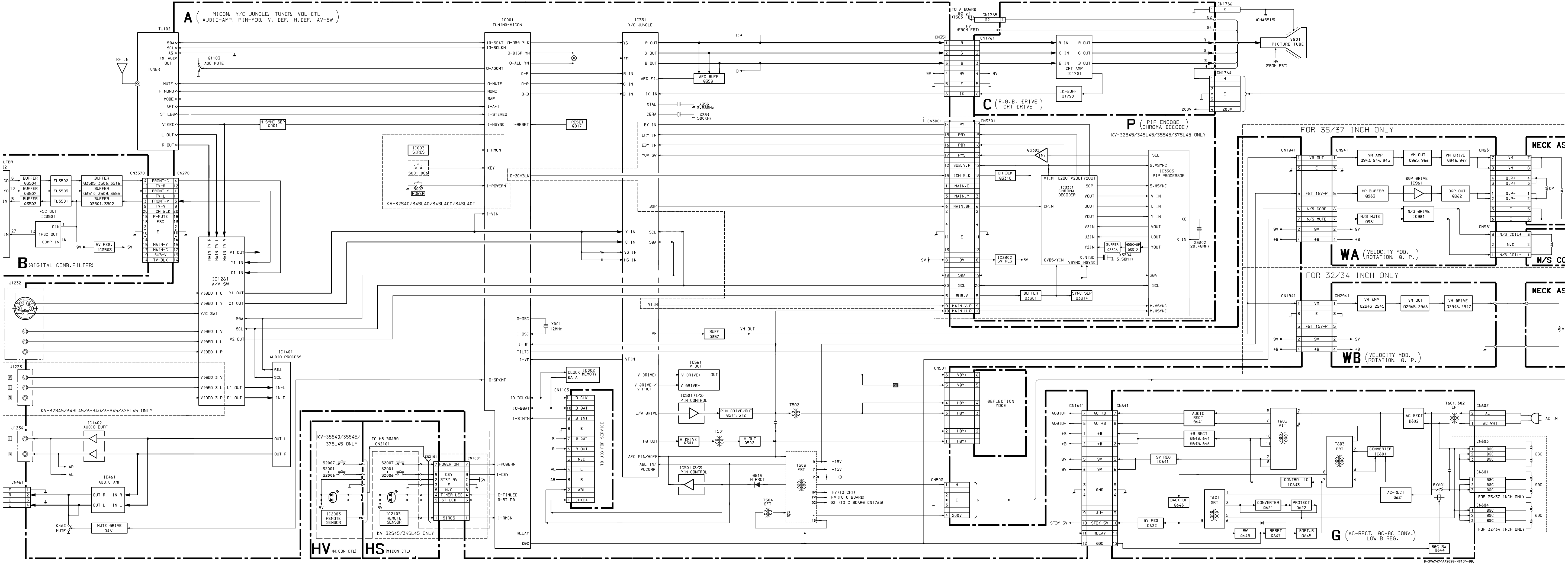
- All voltages are in V.
  S : Measurement impossibillity.
- : B+line.
- : B-line.
  (Actual measured value may be different).
- : signal path. (RF)
- Circled numbers are waveform references.

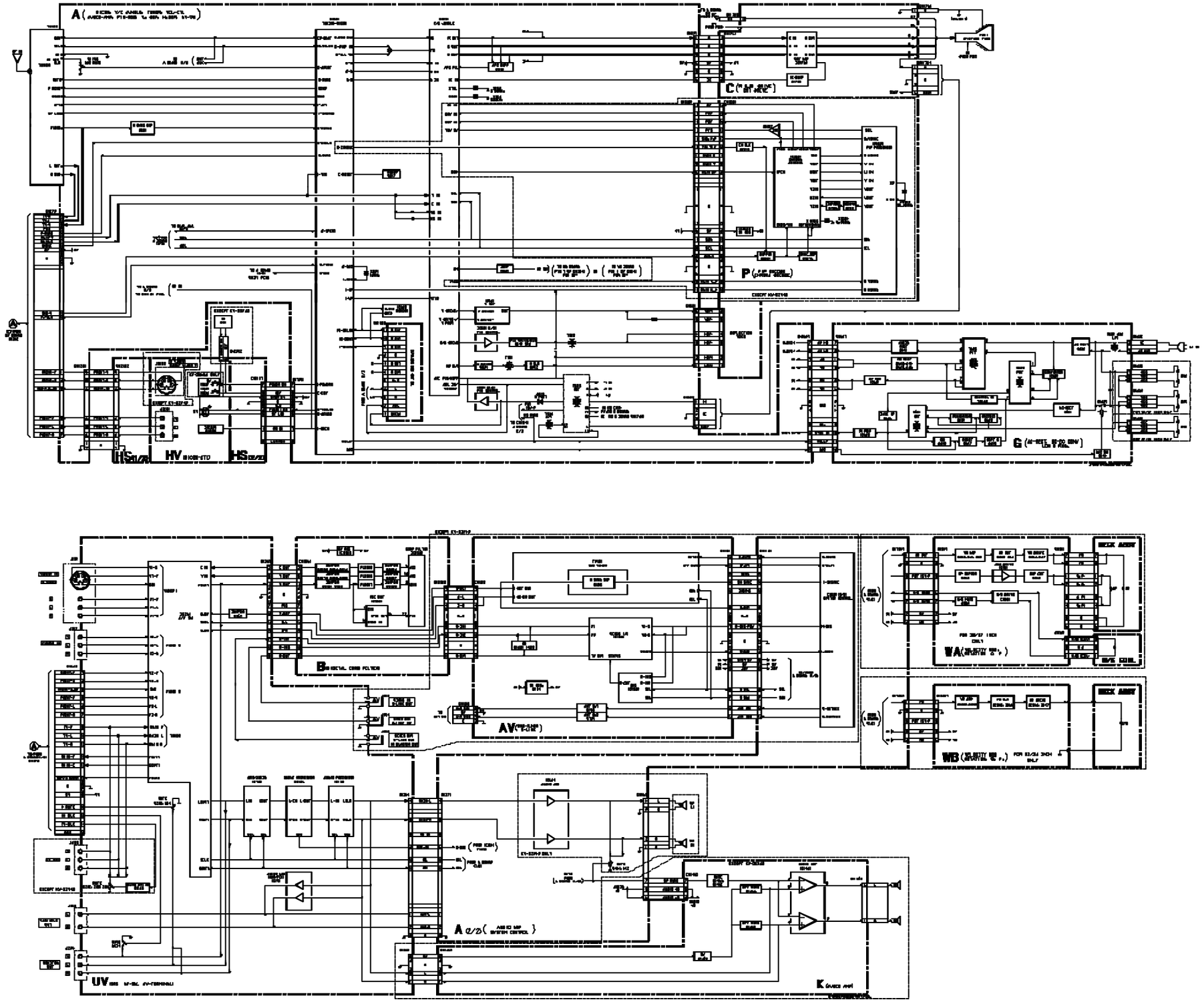
Reference information

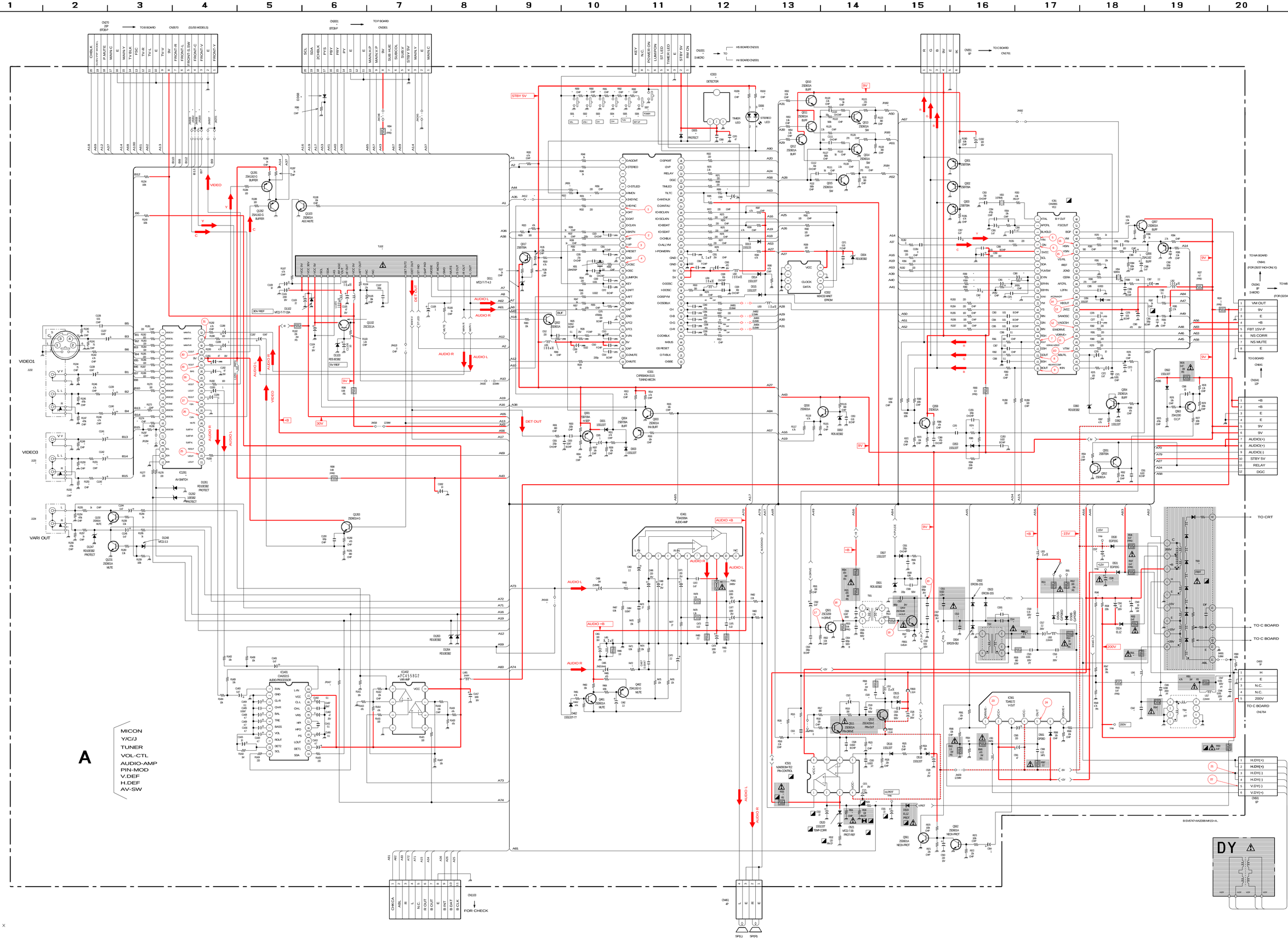
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE

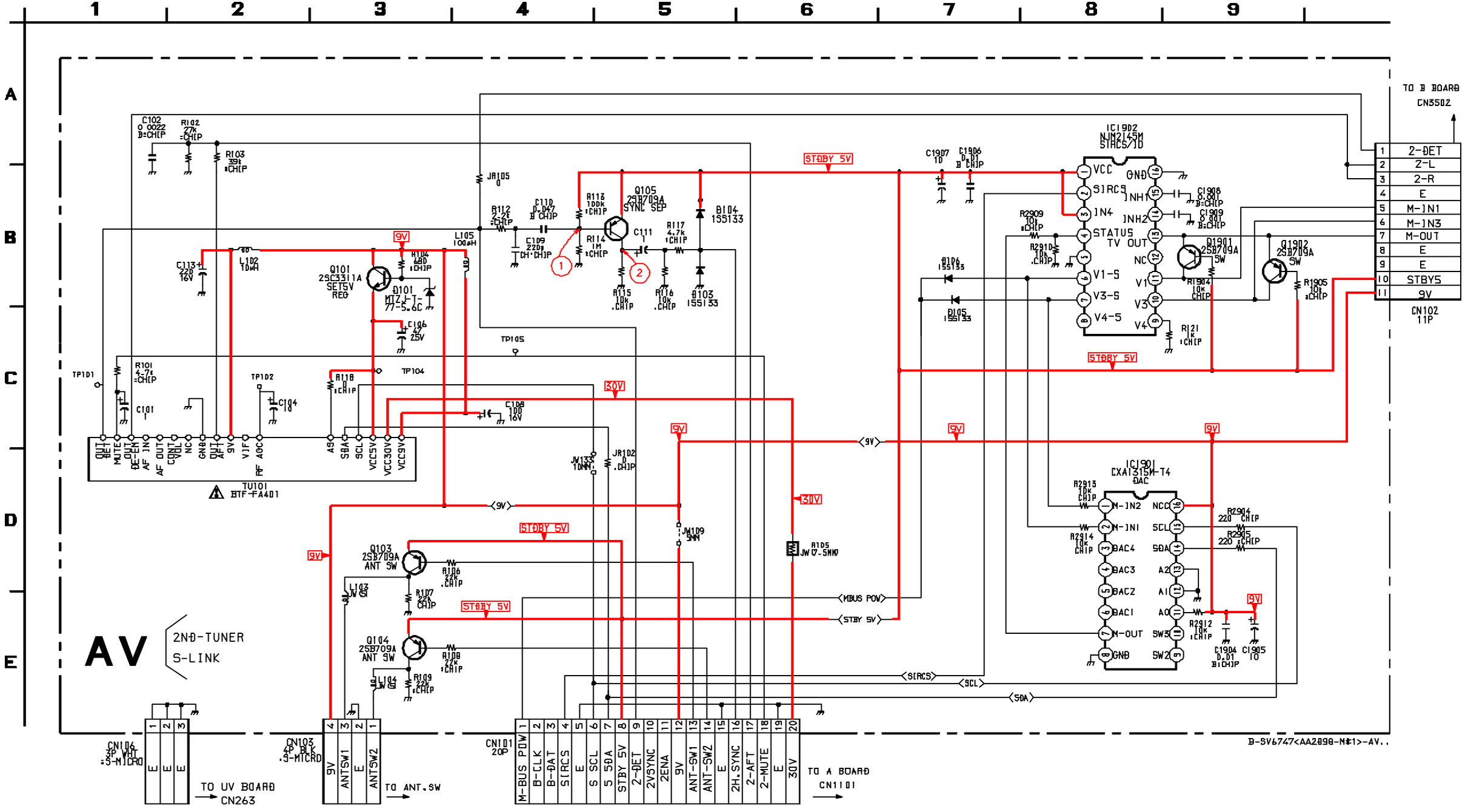
The symbol display is on the component side.
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.
The symbol indicate fast operating fuse.
Replace only with fuse of same rating as marked.

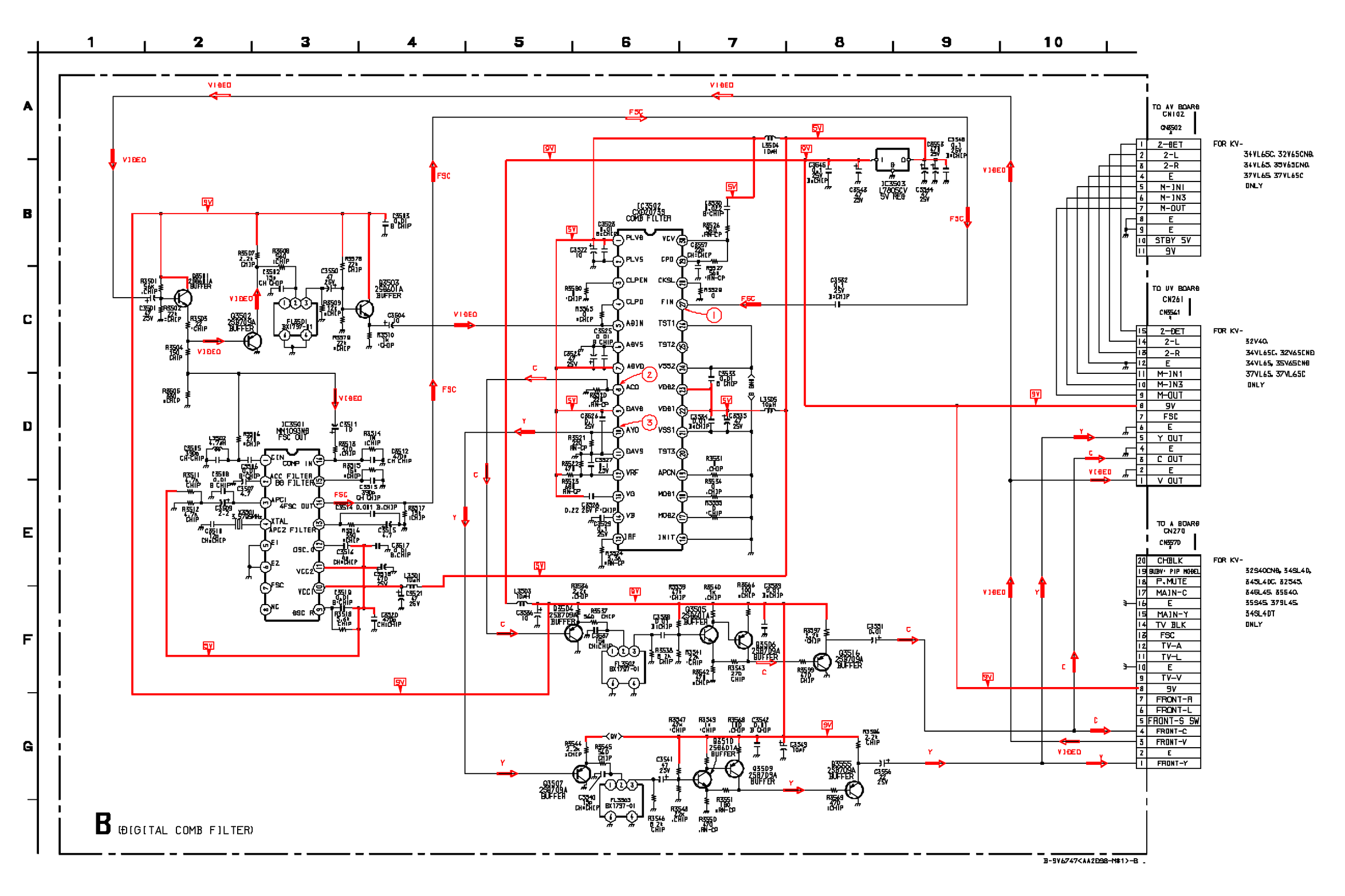
Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.
Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

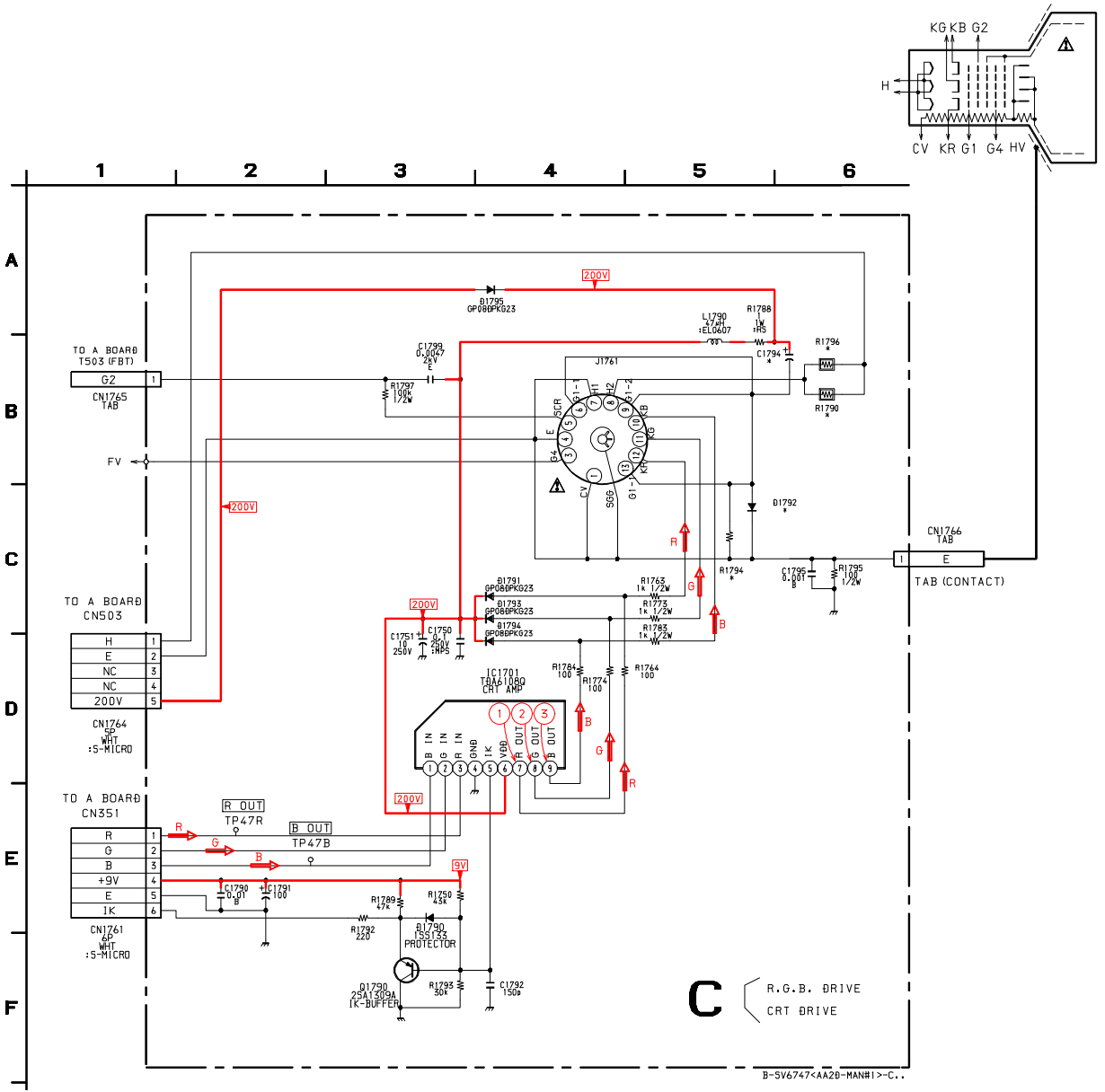

A (MICON, Y/C JUNGLE, TUNER, VOL-CTL AUDIO-AMP, PIN-MOD, V. DEF, H.DEF, AV-SW)
TU102 TUNER
RF IN
Q1103 AGC MUTE
IC001 TUNING-MICON
IC351 Y/C JUNGLE
AFC BUFF Q358
H SYNC SEP Q001
RESET Q017
IC003 SIRCS
S001-006
S007 POWER
KV-32S40/34SL40/34SL40C/34SL40T
X353 3.58MHz
X354 500KHz
X001 12MHz
BUFF Q357
VM OUT
B (DIGITAL COMB.FILTER)
BUFFER Q3504
BUFFER Q3507
BUFFER Q3503
FL3502
FL3503
FL3501
BUFFER Q3505, 3506, 3516
BUFFER Q3510, 3509, 3555
BUFFER Q3501, 3502
FSC OUT IC3501
5V REG. IC3503
CN3570
CN270
IC1261 A/V SW
IC1401 AUDIO PROCESS
J1232
J1233
J1234
KV-32S45/34SL45/35S40/35S45/37SL45 ONLY
IC1402 AUDIO BUFF
IC461 AUDIO AMP
CN461
MUTE DRIVE Q461
Q462 MUTE
HV (MICON-CTL)
HS (MICON-CTL)
KV-35S40/35S45/37SL45 ONLY
TO HS BOARD CN2101
IC2003 REMOTE SENSOR
IC2103 REMOTE SENSOR
KV-32S45/34SL45 ONLY
CN1001
CN1103
IC002 MEMORY
TO JIG FOR SERVICE
IC561 V OUT
IC501 (1/2) PIN CONTROL
IC501 (2/2) PIN CONTROL
PIN DRIVE/OUT Q511, 512
H DRIVE Q501
H OUT Q502
T501
T502
T503 FBT
T504 DFT
D519 H PROT
HV (TO CRT)
FV (TO C BOARD)
G2 (TO C BOARD CN1765)
CN501
CN503
DEFLECTION YOKE
C (R.G.B. DRIVE CRT DRIVE)
TO A BOARD G2 of (T503 FBT)
CN1765
FV (FROM FBT)
CN351
CN1761
CRT AMP IC1701
IK-BUFF Q1790
CN1766
CN1764
(CHASSIS)
V901 PICTURE TUBE
HV (FROM FBT)
P (PIP ENCODE CHROMA DECODE)
KV-32S45/34SL45/35S45/37SL45 ONLY
CN3001
CN3301
Q3302 INV
CH BLK Q3310
IC3301 CHROMA DECODER
IC3303 PIP PROCESSOR
IC3302 5V REG
BUFFER Q3306
HOOK-UP Q3312
X3304 3.58MHz
X3302 20.48MHz
BUFFER Q3301
SYNC.SEP Q3314
FOR 35/37 INCH ONLY
CN1941
CN941
VM AMP Q943, 944, 945
VM OUT Q965, 966
VM DRIVE Q946, 947
HP BUFFER Q963
DQP DRIVE IC961
DQP OUT Q962
N/S MUTE Q981
N/S DRIVE IC981
CN961
CN981
WA (VELOCITY MOD. ROTATION, Q. P.)
NECK AS
N/S CO
FOR 32/34 INCH ONLY
CN2941
VM AMP Q2943-2945
VM OUT Q2965, 2966
VM DRIVE Q2946, 2947
WB (VELOCITY MOD. ROTATION, Q. P.)
G (AC-RECT, DC-DC CONV. LOW B REG.)
CN1641
CN641
AUDIO RECT D641
+B RECT D643, 644 D645, 646
9V REG IC641
T605 PIT
T603 PRT
CONVERTER IC601
AC RECT D602
T601, 602 LFT
CN602
AC IN
CONTROL IC IC643
AC-RECT Q621
RY601
BACK UP Q646
T621 SRT
CONVERTER Q621
PROTECT Q622
5V REG IC622
SW Q648
RESET Q647
SOFT.S Q645
DGC SW Q644
CN603
CN601
CN604
FOR 35/37 INCH ONLY
FOR 32/34 INCH ONLY
B-SV6747<AA2D98-M#15>-BD.

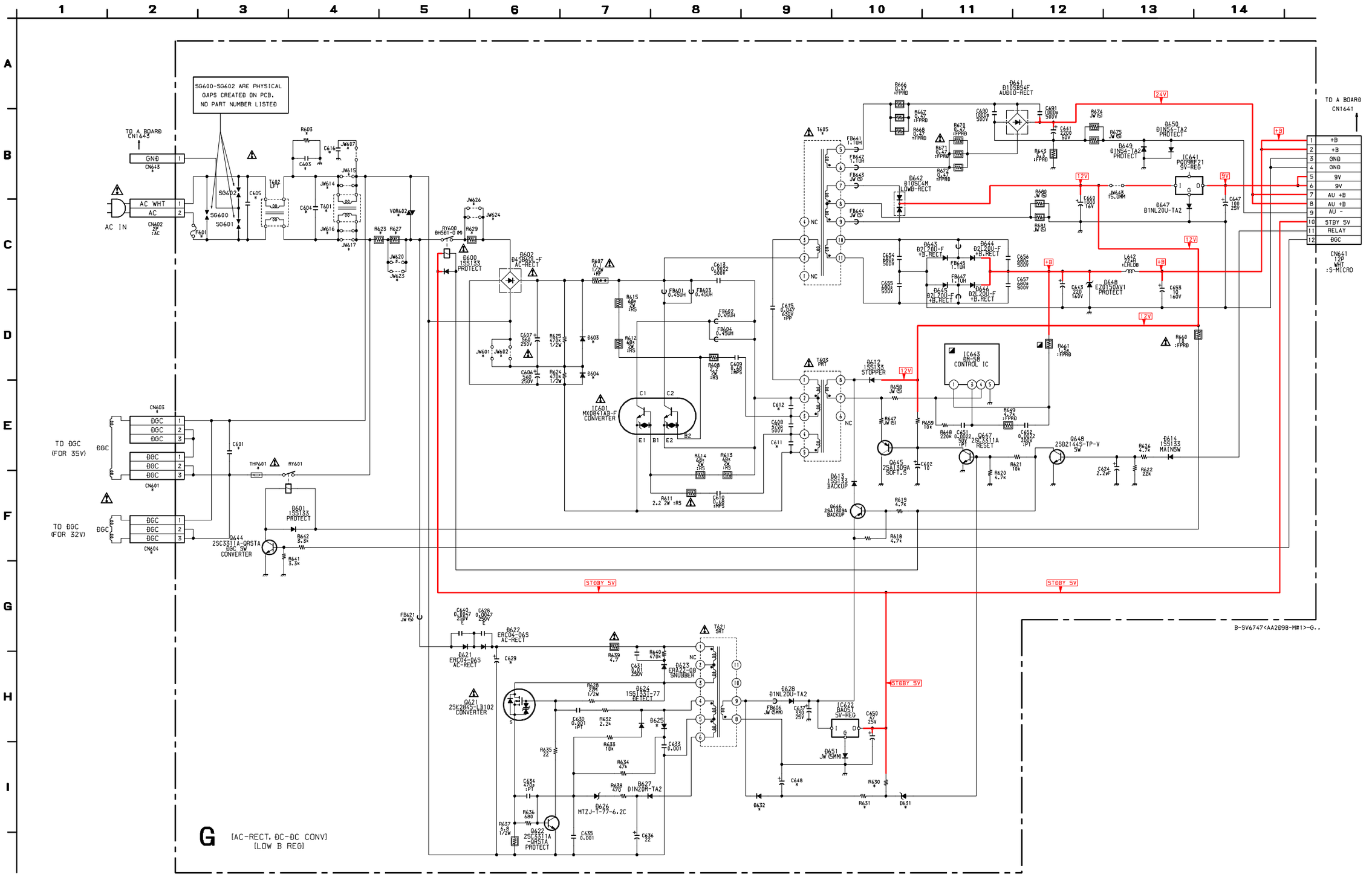


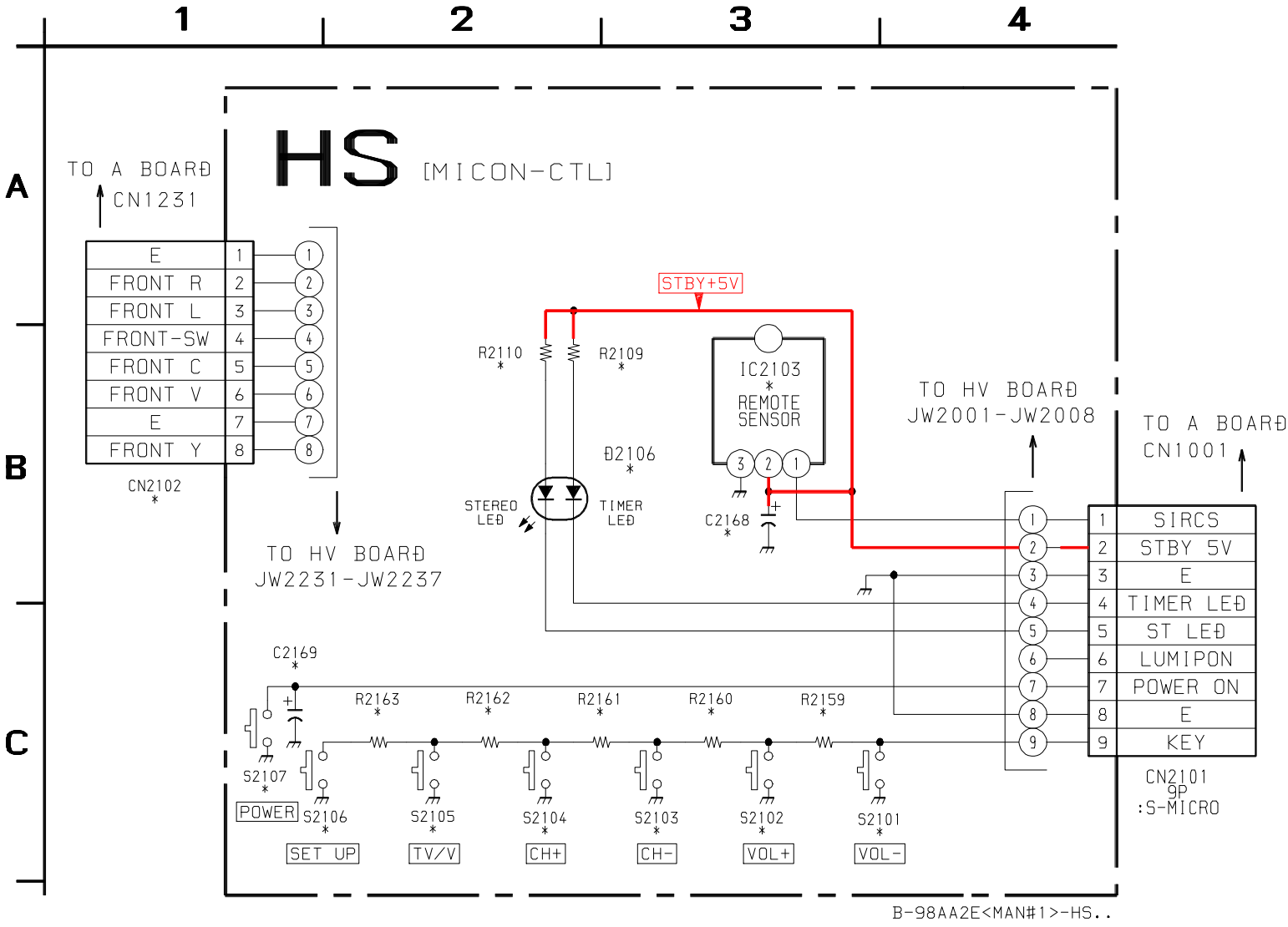

CN870 2P ST/B-P
TO B BOARD
CN870 (SUS5 MODELS)
CN3301 ST/B-P
TO P BOARD CN3301
CN3301 S-MODE
TO HS BOARD-CN3101
TO HV BOARD-CN3001
CN351 6P
TO C BOARD CN761
CHBLK
P. MUTE
MAIN-C
MAIN-Y
TV BLK
FSC
TV-R
TV-L
TV-V
8V
FRONT-R
FRONT-L
FRONT-S-SW
FRONT-C
FRONT-V
FRONT-Y
SCL
SDA
ZCI PROTECT
PRY
PRY
PPY
E
MAIN-P
MAIN-V
8V
SUB HUE
SUBCOL
STBY 5V
MAIN-Y
MAIN-C
KEY
N.C
POWER CON
POWER SW
ST. LED
TIMER LED
E
STBY 5V
RM ON
R
G
B
8V
BK
VIDEO
STBY 5V
DET OUT
AUDIO L
AUDIO R
+B
30V
9V
5V
-15V
+12V
200V
AUDIO +B
VIDEO1
VIDEO3
VARI OUT
AV-SWITCH
MICON
Y/C/J
TUNER
VOL-CTL
AUDIO-AMP
PIN-MOD
V.DEF
H.DEF
AV-SW
A
CN103
FOR CHECK
CHROMA
ABL
R
L
N.C.
B.OUT
E
B.INT
B.DAT
B.CLK
CN461
SP(L)
SP(R)
TO CRT
TO C BOARD
TO C BOARD
TO C BOARD
CN764
TO W.B BOARD
CN941
(FOR 25/32 INCH ONLY)
TO W.B BOARD
CN941
(FOR 25/32 INCH ONLY)
TO G BOARD
CN941
VM OUT
5V
E
+B
FBT 15V-P
NS CORR
NS MUTE
E
+B
+B
E
E
5V
AUDIO(+)
AUDIO(+)
AUDIO(-)
STBY 5V
RELAY
DGC
H
E
N.C.
N.C.
200V
H.DY(+)
H.DY(+)
H.DY(-)
H.DY(-)
V.DY(+)
V.DY(-)
CN651
DY
B-SVE574V-NAZD984-MR15I-A.

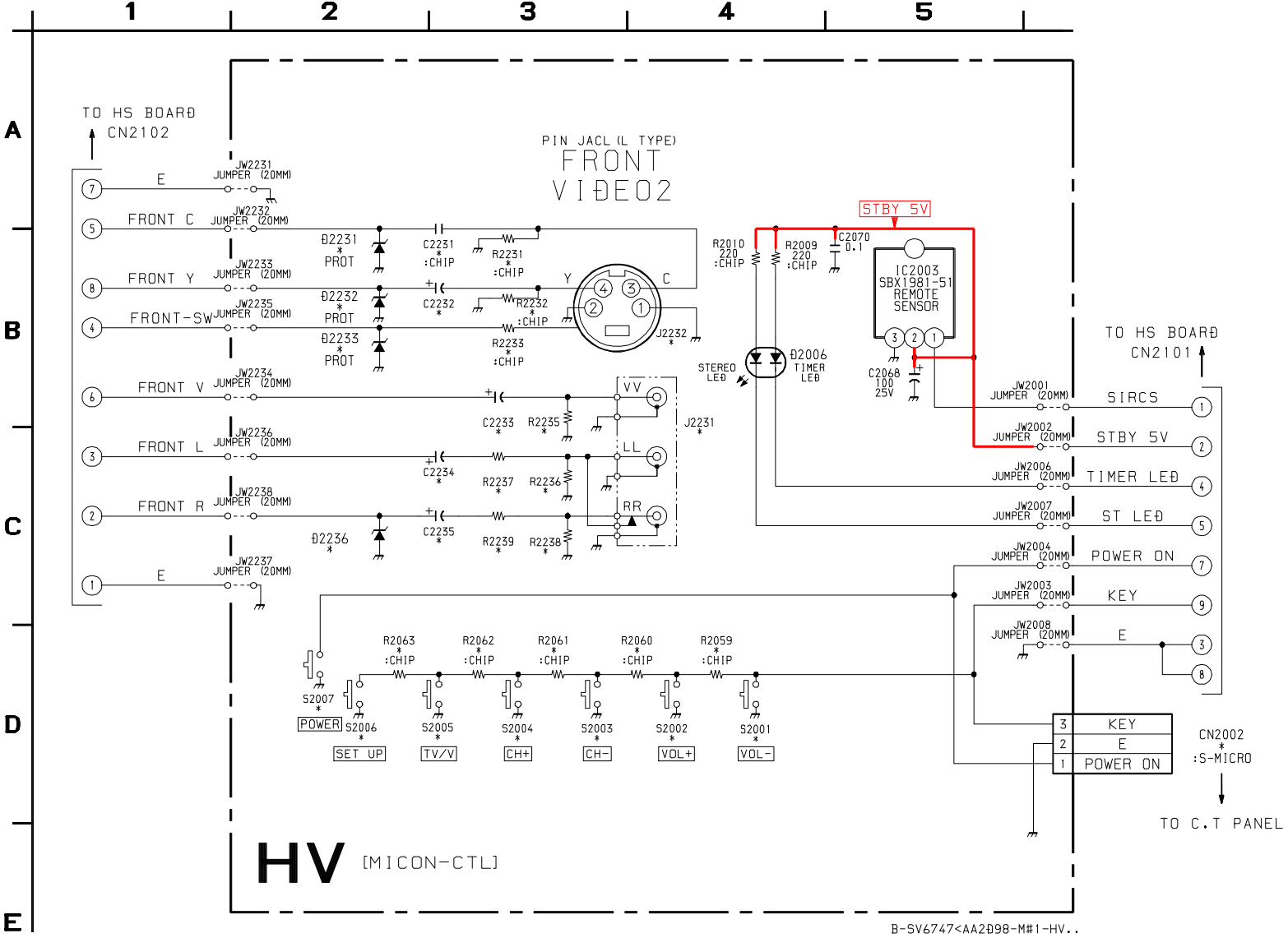

AV
2ND-TUNER
S-LINK
TO UV BOARD
CN263
TO ANT. SW
TO A BOARD
CN1101
TO B BOARD
CN3502
CN102
11P
IC1902
NJM2145M
STBCS/1D
IC1901
CXA1315M-T4
DAC
TU101
BTF-FA401
Q101
2SC3311A
SET5V
REG
Q103
2SB709A
ANT SW
Q104
2SB709A
ANT SW
Q105
2SB709A
SYNC SEP
Q1901
2SB709A
SW
Q1902
2SB709A
SW
D101
MTZJ-T-
77-5.6C
D103
1SS133
D104
1SS133
D105
1SS133
STBY 5V
9V
30V
MBUS POW
SIRCS
SCL
SDA
2-DET
2-L
2-R
E
M-IN1
M-IN3
M-OUT
E
E
STBY5
9V
B-SV6747<AA2898-M#1>-AV..

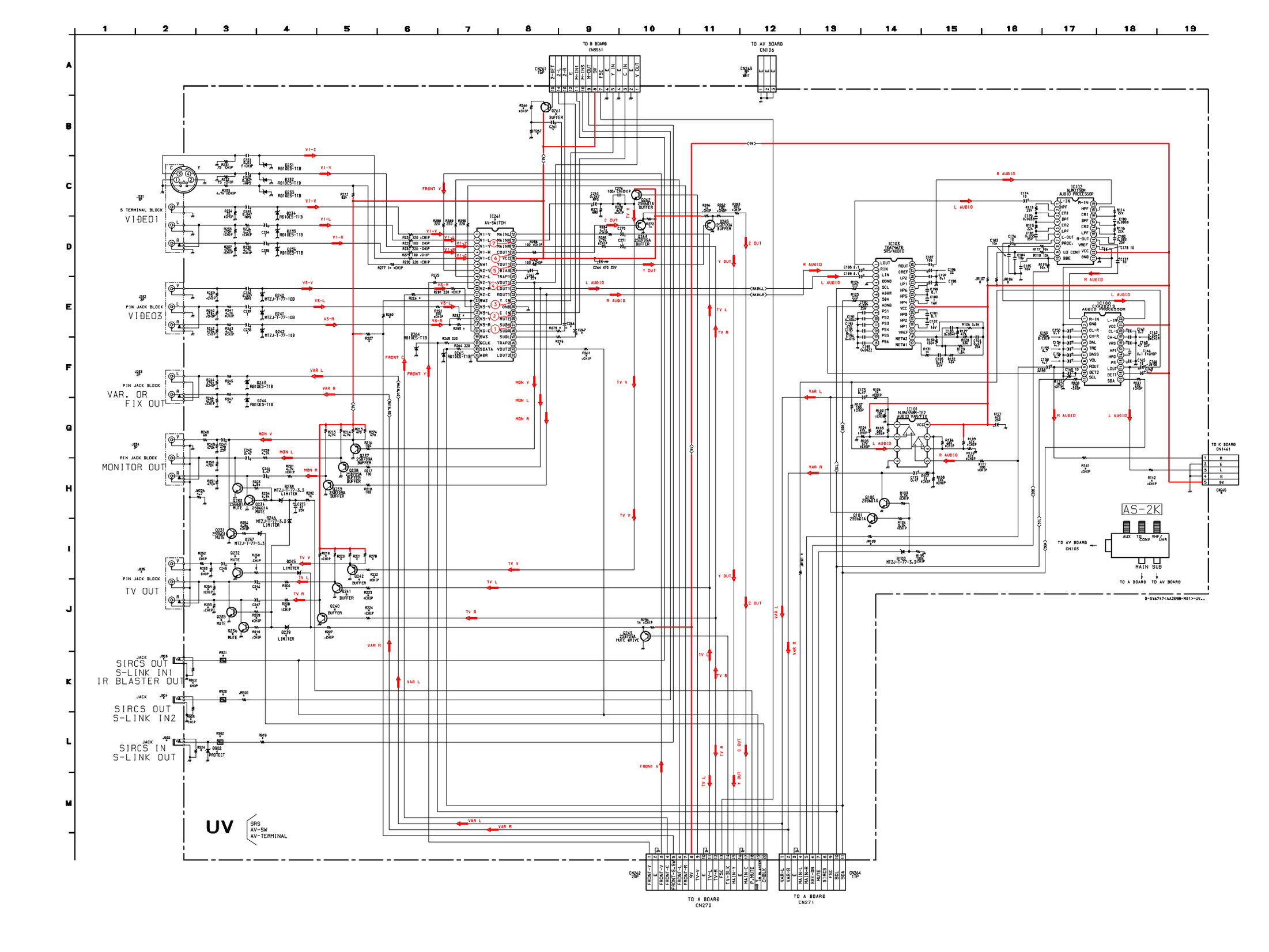

1 2 3 4 5 6 7 8 9 10
A B C D E F G
VIDEO
FSC
5V
9V
IC3502
CXD2075R
COMB FILTER
PLV8
PLV5
CLPEN
CLPD
ADIN
AGV5
AGV8
ACO
DAV8
AYO
DAV9
VRF
VG
VB
IRF
VCV
CPD
CKSL
FIN
TST1
TST2
VSS2
VDD2
VDD1
VSS1
TST3
APCN
MOB1
MOB2
INIT
IC3501
MN1099NB
FSC OUT
CIN
COMP IN
ACC FILTER
BG FILTER
APCI
4FSC OUT
XTAL
APCZ FILTER
EI
EZ
FSC
VCC1
VCC2
OSC O
OSC I
IC3503
L7805CV
5V REG
TO AV BOARD
CN102
CN6502
1 2-DET
2 2-L
3 2-R
4 E
5 M-IN1
6 M-IN3
7 M-OUT
8 E
9 E
10 STBY 5V
11 9V
FOR KV-
34VL65C, 32V65CNB,
34VL65, 35V65CNB,
37VL65, 37VL65C
ONLY
TO UV BOARD
CN261
CN6541
15 2-DET
14 2-L
13 2-R
12 E
11 M-IN1
10 M-IN3
9 M-OUT
8 9V
7 FSC
6 E
5 Y OUT
4 E
3 C OUT
2 E
1 V OUT
FOR KV-
32V40,
34VL65C, 32V65CNB
34VL65, 35V65CNB
37VL65, 37VL65C
ONLY
TO A BOARD
CN270
CN6570
20 CHBLK
19 BUSY, PIP MODEL
18 P.MUTE
17 MAIN-C
16 E
15 MAIN-Y
14 TV BLK
13 FSC
12 TV-A
11 TV-L
10 E
9 TV-V
8 9V
7 FRONT-R
6 FRONT-L
5 FRONT-S SW
4 FRONT-C
3 FRONT-V
2 E
1 FRONT-Y
FOR KV-
32S40CNB, 34SL40,
34SL40C, 32S45,
34SL45, 35S40,
35S45, 37SL45,
34SL40T
ONLY
B (DIGITAL COMB FILTER)
B-9V6747<AA2D98-M#1>-B


KG KB G2
H
CV KR G1 G4 HV
1
2
3
4
5
6
A
B
C
D
E
F
200V
D1795
GP08DPKG23
L1790
47uH
±ELO607
R1788
1W
±H5
C1799
0.0047
2kV
E
R1796
C1794
R1790
R1797
100k
1/2W
J1761
SCR
G1-1
H1
H2
G1-2
KB
E
G4
KR
CV
SG6
G1-3
TO A BOARD
T503 (FBT)
G2
1
CN1765
TAB
FV
D1792
CN1766
TAB
E
TAB (CONTACT)
R
G
B
R1794
C1795
0.001
B
R1795
100
1/2W
TO A BOARD
CN503
H 1
E 2
NC 3
NC 4
200V 5
CN1764
5P
WHT
:S-MICRO
D1791
GP08DPKG23
D1793
GP08DPKG23
D1794
GP08DPKG23
R1763
1k 1/2W
R1773
1k 1/2W
R1783
1k 1/2W
C1750
0.1
250V
±MPS
C1751
10
250V
R1784
100
R1774
100
R1764
100
IC1701
TDA6108Q
CRT AMP
B IN
G IN
R IN
GND
IK
VBB
R OUT
G OUT
B OUT
TO A BOARD
CN351
R 1
G 2
B 3
+9V 4
E 5
IK 6
CN1761
6P
WHT
:S-MICRO
R OUT
TP47R
B OUT
TP47B
9V
C1790
0.01
B
C1791
100
R1789
47k
R1750
43k
R1792
220
D1790
1SS133
PROTECTOR
D1790
2SA1309A
IK-BUFFER
R1793
30k
C1792
150p
C
R.G.B. DRIVE
CRT DRIVE
B-SV6747<AA2B-MAN#1>-C..


SG600-SG602 ARE PHYSICAL GAPS CREATED ON PCB. NO PART NUMBER LISTED
TO A BOARD CN1643
AC IN
TO DGC (FOR 35V)
TO DGC (FOR 32V)
TO A BOARD CN1641
+B
12V
24V
9V
5V
STBY 5V
IC643 BH-58 CONTROL IC
IC641 PQ09RE21 9V-REG
IC642 BA05T 5V-REG
IC601 MK0841AB-F CONVERTER
Q421 2SK2845-LB102 CONVERTER
Q644 2SC3311A-QRSTA DGC 5V CONVERTER
D600 1SS133 PROTECT
D401 1SS133 PROTECT
D402 D4SB60L-F AC-RECT
D622 ERC04-06S AC-RECT
D621 ERC04-06S AC-RECT
D641 B1DSB54F AUDIO-RECT
D642 B1DSC4M LOWB-RECT
D643 D2L20U-F +B.RECT
D644 D2L20U-F +B.RECT
D645 D2L20U-F +B.RECT
D646 D2L20U-F +B.RECT
D647 B1NL20U-TA2
D648 EZA15DAV1 PROTECT
D649 B1NS4-TA2 PROTECT
D650 B1NS4-TA2 PROTECT
D626 MTZJ-T-77-6.2C
D627 B1NZ0R-TA2
D628 B1NL20U-TA2
D624 1SS133T-77 REJECT
D623 ERA22-08 SNUBBER
D612 1SS133 STOPPER
D613 1SS133 BACKUP
D614 1SS133 MAINSW
Q622 2SC3311A-QRSTA PROTECT
Q645 2SA1309A SOFT-S
Q646 2SA1309A BACKUP
Q647 2SC3311A RESET
Q648 2SB1144S-TP-V 5W
CN1641 12P WHT :S-MICRO
B-SV6747<AA2D98-M#1>-G..
G [AC-RECT, DC-DC CONV] [LOW B REG]

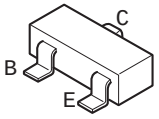

1
2
3
4
A
B
C
HS [MICON-CTL]
TO A BOARD
CN1231
E 1
FRONT R 2
FRONT L 3
FRONT-SW 4
FRONT C 5
FRONT V 6
E 7
FRONT Y 8
CN2102
*
TO HV BOARD
JW2231-JW2237
STBY+5V
R2110
*
R2109
*
IC2103
*
REMOTE
SENSOR
D2106
*
STEREO
LED
TIMER
LED
C2168
*
TO HV BOARD
JW2001-JW2008
TO A BOARD
CN1001
1 SIRCS
2 STBY 5V
3 E
4 TIMER LED
5 ST LED
6 LUMIPON
7 POWER ON
8 E
9 KEY
CN2101
9P
:S-MICRO
C2169
*
R2163
*
R2162
*
R2161
*
R2160
*
R2159
*
S2107
*
POWER
S2106
*
SET UP
S2105
*
TV/V
S2104
*
CH+
S2103
*
CH-
S2102
*
VOL+
S2101
*
VOL-
B-98AA2E<MAN#1>-HS..


1
2
3
4
5
A
B
C
D
E
TO HS BOARÐ
CN2102
PIN JACL (L TYPE)
FRONT
VIÐEO2
JW2231 JUMPER (20MM)
E
JW2232 JUMPER (20MM)
FRONT C
JW2233 JUMPER (20MM)
FRONT Y
JW2235 JUMPER (20MM)
FRONT-SW
JW2234 JUMPER (20MM)
FRONT V
JW2236 JUMPER (20MM)
FRONT L
JW2238 JUMPER (20MM)
FRONT R
JW2237 JUMPER (20MM)
E
Ð2231 * PROT
Ð2232 * PROT
Ð2233 * PROT
Ð2236 *
C2231 *:CHIP
C2232 *
C2233 *
C2234 *
C2235 *
R2231 *:CHIP
R2232 *:CHIP
R2233 *:CHIP
R2235 *
R2237 *
R2236 *
R2239 *
R2238 *
Y
C
J2232 *
VV
LL
RR
J2231 *
STBY 5V
R2010 220 :CHIP
R2009 220 :CHIP
C2070 0.1
IC2003 SBX1981-51 REMOTE SENSOR
STEREO LEÐ
Ð2006 TIMER LEÐ
C2068 100 25V
TO HS BOARÐ
CN2101
JW2001 JUMPER (20MM)
SIRCS
JW2002 JUMPER (20MM)
STBY 5V
JW2006 JUMPER (20MM)
TIMER LEÐ
JW2007 JUMPER (20MM)
ST LEÐ
JW2004 JUMPER (20MM)
POWER ON
JW2003 JUMPER (20MM)
KEY
JW2008 JUMPER (20MM)
E
R2063 *:CHIP
R2062 *:CHIP
R2061 *:CHIP
R2060 *:CHIP
R2059 *:CHIP
S2007 * POWER
S2006 * SET UP
S2005 * TV/V
S2004 * CH+
S2003 * CH-
S2002 * VOL+
S2001 * VOL-
3 KEY
2 E
1 POWER ON
CN2002 *:S-MICRO
TO C.T PANEL
HV [MICON-CTL]
B-SV6747<AA2Ð98-M#1-HV..

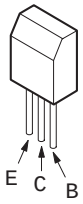

TO B BOARD CN5561
TO AV BOARD CN106
S TERMINAL BLOCK VIDEO1
PIN JACK BLOCK VIDEO3
PIN JACK BLOCK VAR. OR FIX OUT
PIN JACK BLOCK MONITOR OUT
PIN JACK BLOCK TV OUT
JACK SIRCS OUT S-LINK IN1 IR BLASTER OUT
JACK SIRCS OUT S-LINK IN2
JACK SIRCS IN S-LINK OUT
IC261 AV-SWITCH
IC101 NJM2588M-TE2 AUDIO VOLUME
IC102 NJW1308M AUDIO PROCESSOR
IC103 TDA7479D SRS/AUDIO
IC100 CXA2061R AUDIO PROCESSOR
AS-2K
MAIN SUB
TO A BOARD CN270
TO A BOARD CN271
TO K BOARD CN1441
TO AV BOARD CN103
UV
SRS AV-SW AV-TERMINAL

6-5. SEMICONDUCTORS

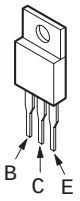
DTC114EK
2SC1623-L5L6
2SA1330-06
2SA1162-G
2SD601A-Q



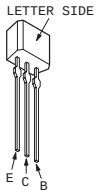
2SC3209LK



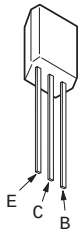
2SA1837
2SC4159-E



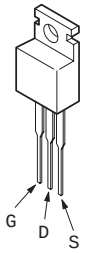
2SA1175-HFE
2SC2785-HFE



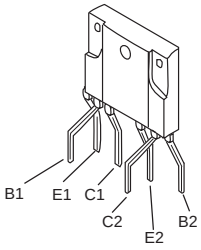
2SD2144S-V



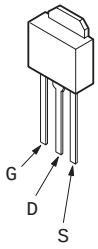
IRF614



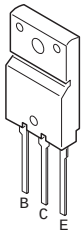
MX0841



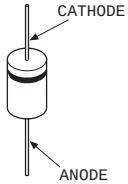
2SK2845-LB102



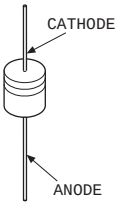
2SC5148



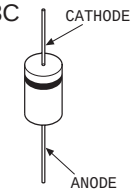
ERC06-15S
ISSI33T-77



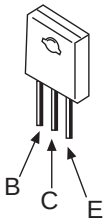
D1NS4
D1N20R
MTZJ-3.3
MTZJ-33A
RD10ESB2
RD39ES-B2
RD5.6ESB2
RD6.2ESB2



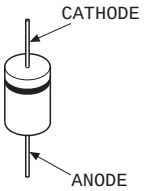
D2L2OU
EL1Z
EZD150AV1
GP08D
MTZJ-T-77-4.3C
EGP20G



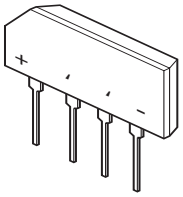
2SC4834M



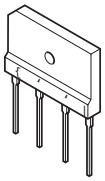
EGP30D
ERD29-08J



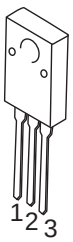
D10SBS4F



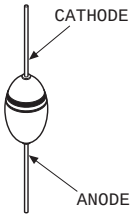
D4SB60L
D1NL40-TA2



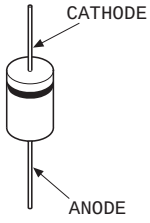
D10SC4M



U05G



D1NL20U



SECTION 7
EXPLODED VIEW

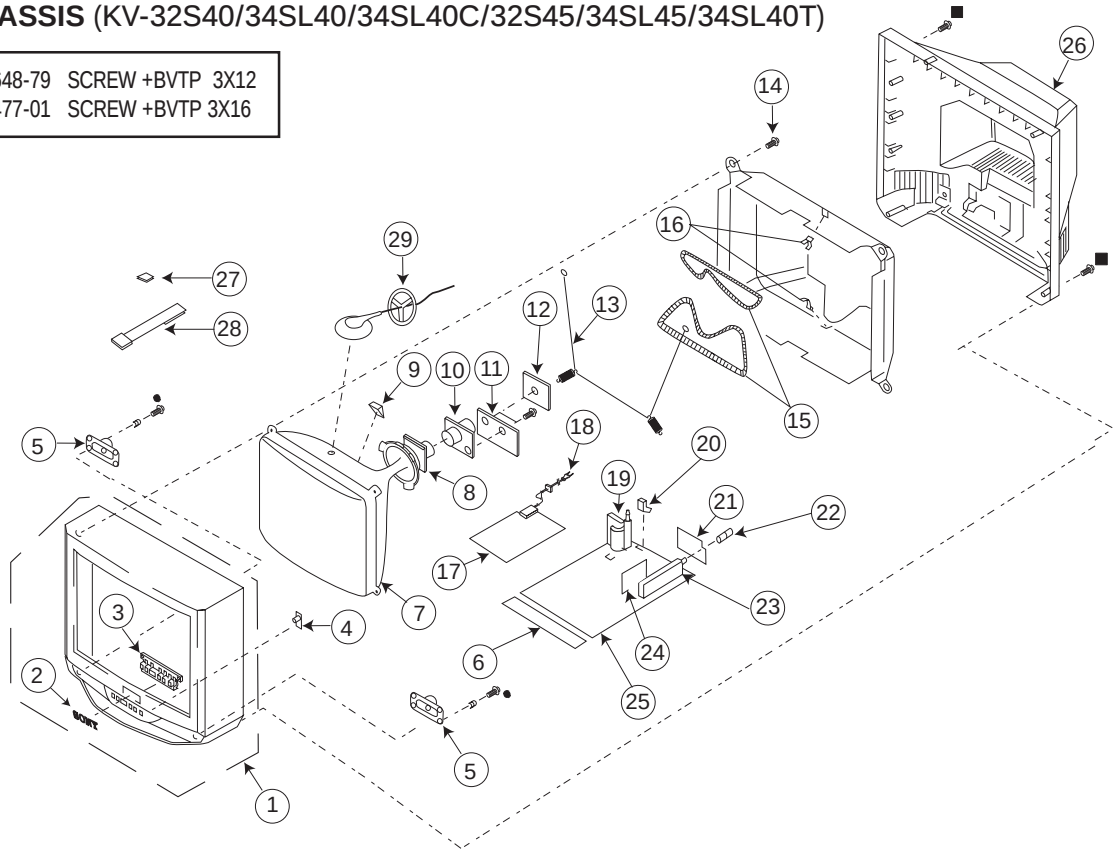
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked with an asterisk " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and "⚠" are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS (KV-32S40/34SL40/34SL40C/32S45/34SL45/34SL40T)

■ 7-685-648-79 SCREW +BVTP 3X12
● 4-388-477-01 SCREW +BVTP 3X16



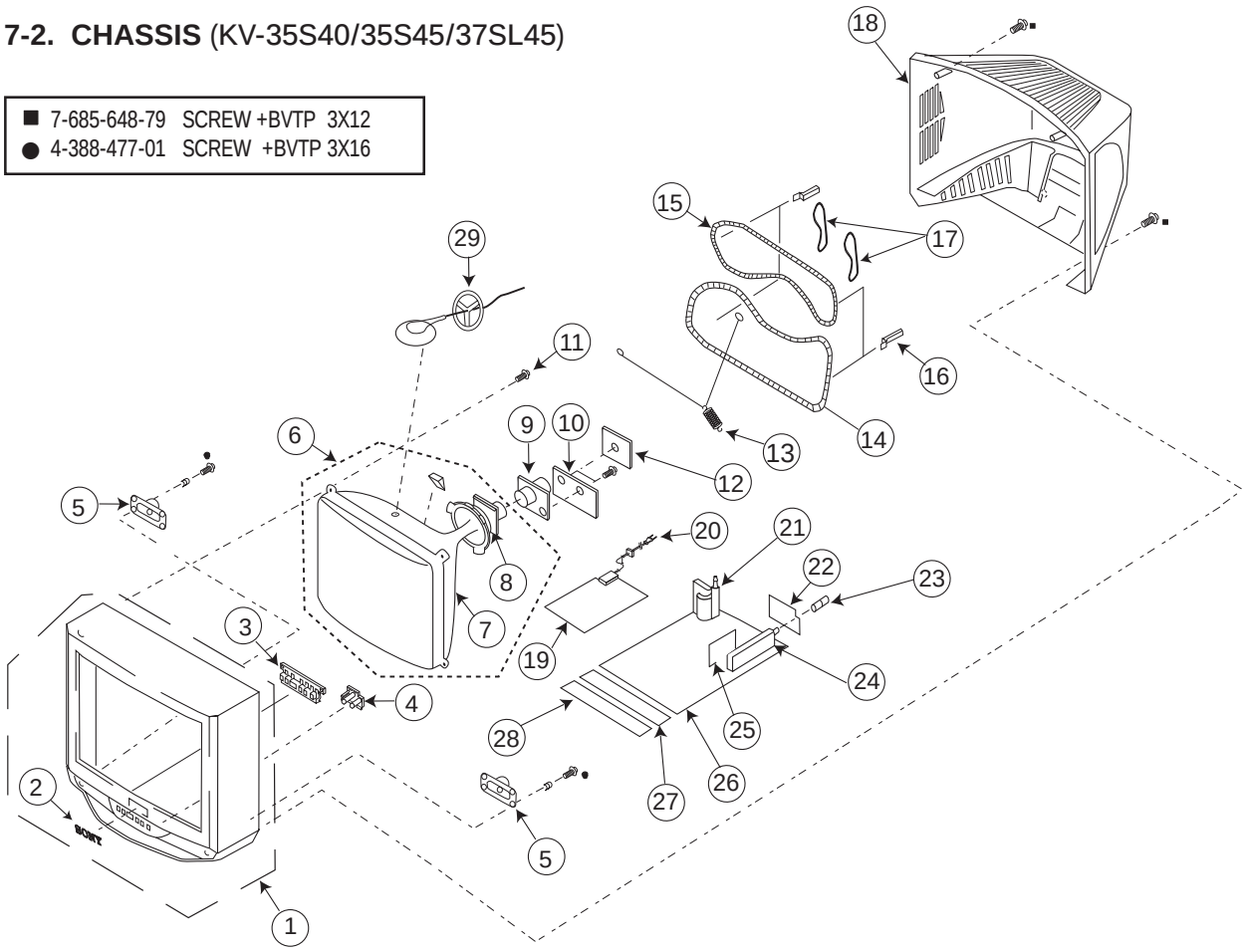
REF.NO.		PART NO.	DESCRIPTION	REMARK
1		X-4035-771-1	BEZNET ASSY (KV-32S40/34SL50C/34SL40/34SL40T)	2-4
1		X-4035-772-1	BEZNET ASSY (KV-32S45/34SL45)	2-4
2		4-046-160-11	EMBLEM (NO.9), SONY	
3		4-063-573-01	BUTTON, MULTI	
4		4-063-570-01	GUIDE, LED	
5		1-504-531-11	SPEAKER (13.1X6.2CM)	
6	*	A-1372-519-A	HS BOARD, COMPLETE (KV-32S45/34SL45)	
7	⚠	8-733-756-05	CRT 34FX2T (A80JYV52X) (KV-34SL40C)	
7	⚠	8-733-757-05	CRT 34FX2T (A80JYV52X) (FOR N.A. AREA) (KV-32S40/32S45/34SL40/34SL45/34SL40T)	
8	⚠	8-451-482-21	DY Y34FXA2-X	
9		4-053-005-01	SPACER, DY	
10	⚠	1-452-579-21	NECK ASSY	
11	*	A-1372-508-A	WB BOARD, MOUNTED	
12	*	A-1331-837-A	C BOARD, COMPLETE	
13		4-036-329-01	SPRING (B) TENSION	
14		4-041-268-01	SCREW (7), TAPPING	
15	⚠	1-402-952-11	COIL, DEMAGNETIC	
16	*	4-371-629-01	STOPPER, WIRE	
17	*	A-1316-389-A	G BOARD, COMPLETE (KV-32S40/34SL40/32S45/34SL45)	
17	*	A-1316-395-A	G BOARD, COMPLETE (KV-34SL40C)	
17	*	A-1316-396-A	G BOARD, COMPLETE (KV-34SL40T)	
18	⚠	1-751-059-11	CORD, POWER (W/CONNECTOR)	
19	⚠	1-453-207-11	TRANSFORMER, FBT ASSY NX-2609//X4C	
20		4-064-530-01	CLIP, CHASSIS (KV-32S45/34SL45)	
21	*	A-1135-950-A	B, BOARD COMPLETE	
22		1-766-374-11	PLUG, F-PIN	
23	⚠	8-598-431-00	FSS TUNER, BTF-WA411 (EXCEPT KV-34SL40T)	
23	⚠	8-598-477-00	FSS TUNER, BTF-WG411 (KV-34SL40T ONLY)	
24	*	A-1195-138-A	P BOARD, COMPLETE (KV-32S45/34SL45)	
25	*	A-1298-661-A	A BOARD,COMPLETE (KV-34SL40T)	
25	*	A-1298-630-A	A BOARD,COMPLETE (KV-32S40/34SL40/34SL40C)	
25	*	A-1298-631-A	A, BOARD COMPLETE (KV-32S45/34SL45)	
26		4-063-852-01	COVER, REAR (KV-32S40/34SL40/34SL40C/34SL40T)	
26		4-064-760-01	COVER, REAR (KV-32S45/34SL45)	
27		1-452-885-11	MAGNET, LANDING	
28		4-062-047-01	PIECE A (110), CONV. CORRECT	
29		3-704-372-31	HOLDER, HV	

The components identified by shading and "⚠" mark are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-2. CHASSIS (KV-35S40/35S45/37SL45)

■ 7-685-648-79 SCREW +BVTP 3X12
● 4-388-477-01 SCREW +BVTP 3X16



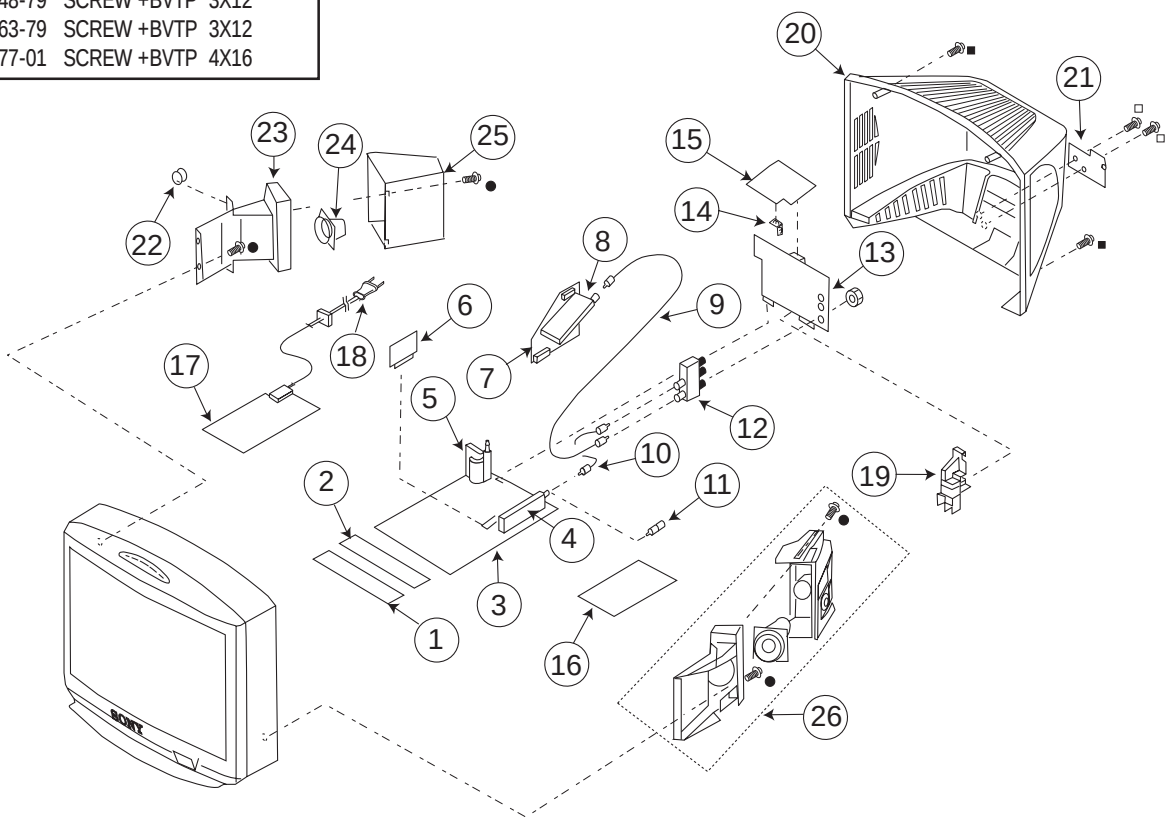
REF.NO.		PART NO.	DESCRIPTION	REMARK
1		X-4035-596-1	BEZNET ASSY (KV-35S40)	2
1		X-4035-597-1	BEZNET ASSY (KV-35S45/37SL45)	2
2		4-046-160-01	EMBLEM (NO.9), SONY	
3		4-058-053-11	BUTTON, MULTI	
4		4-058-054-01	BAR, OPTICAL	
5		1-504-531-11	SPEAKER (13.1X6.2CM)	
6	⚠	8-733-761-61	ITC 37GXT-A1	7,8
7	⚠	8-733-761-05	CRT 37GXT	
8	⚠	8-451-480-11	DY Y37GXA-X	
9	⚠	8-453-007-11	NA324-M (KV-35S40/35S45/37SL45)	
10	*	A-1372-462-A	WA BOARD, MOUNTED	
11		4-046-765-01	SCREW, TAPPING	
12	*	A-1331-843-A	C BOARD, COMPLETE	
13		4-036-329-01	SPRING (B) TENSION	
14	⚠	1-411-881-11	COIL, DEMAGNETIC	
15	⚠	1-411-882-11	COIL, DEMAGNETIC	
16		4-052-900-02	HOLDER, DGC	
17		4-059-585-01	TIE, CABLE (KV-35S40/35S45/37SL45)	
18		4-058-052-21	COVER, REAR	
19	*	A-1316-399-A	G, BOARD, COMPLETE	
20	⚠	1-751-059-11	CORD, POWER (W/CONNECTOR)	
21	⚠	X-4034-797-1	TRANSFORMER, FBT ASSY NX-3005//J1C	
22	*	A-1135-950-A	B, BOARD COMPLETE	
23		1-766-374-11	PLUG, F-PIN	
24		8-598-431-00	FSS TUNER, BTF-WA411	
25	*	A-1195-138-A	P BOARD, COMPLETE (KV-35S45/37SL45)	
26	*	A-1298-645-A	A, BOARD COMPLETE (KV-35S40)	
26	*	A-1298-646-A	A, BOARD COMPLETE (KV-35S45/37SL45)	
27	*	A-1372-523-A	HV BOARD, COMPLETE	
28	*	A-1372-507-A	HS BOARD, COMPLETE	
29		3-704-372-31	HOLDER, HV	

The components identified by shading and "⚠" mark are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-3. CHASSIS (KV-32V40/32V65/34VL65/35VL65C/35V65/37VL65/37VL65C)

■ 7-685-648-79 SCREW +BVTP 3X12
□ 7-685-663-79 SCREW +BVTP 3X12
● 4-388-477-01 SCREW +BVTP 4X16

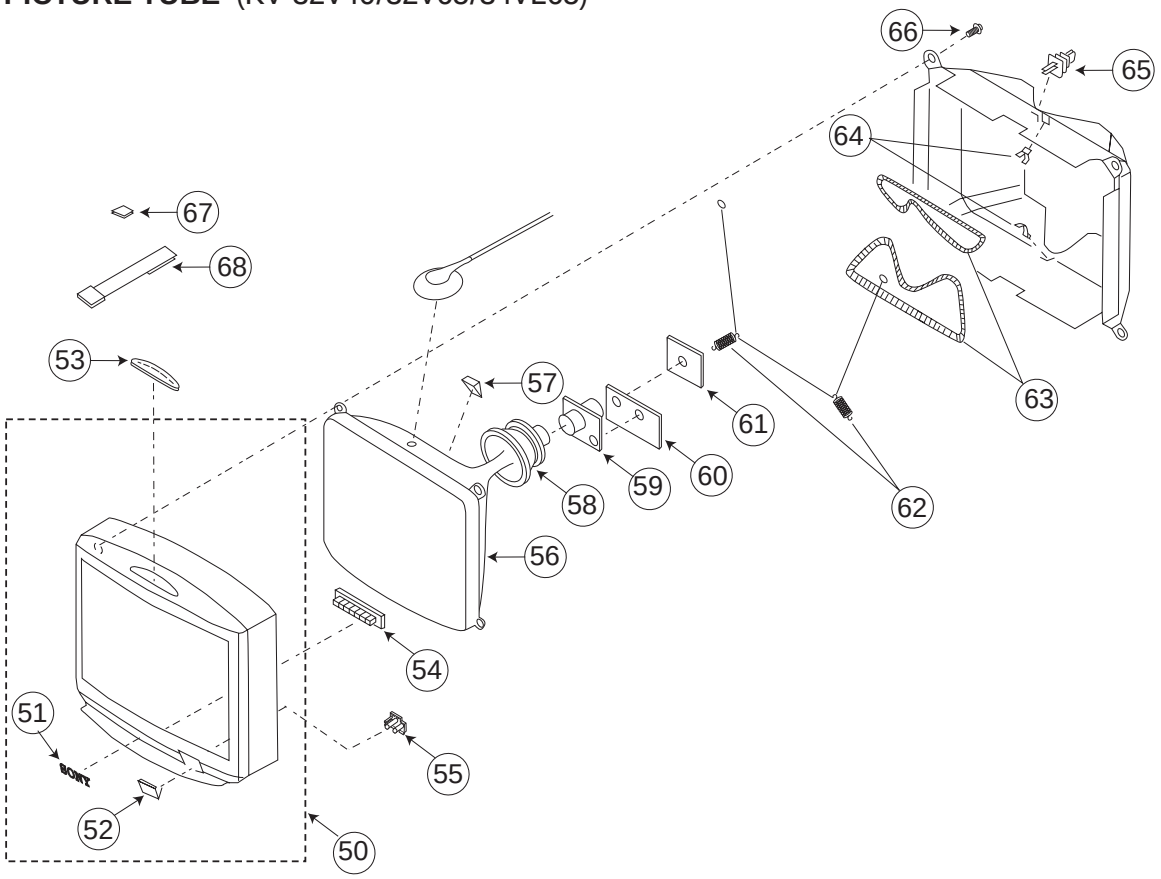


REF.NO.		PART NO.	DESCRIPTION	REMARK
1	*	A-1372-510-A	HS BOARD, COMPLETE	
2	*	A-1372-505-A	HV BOARD, COMPLETE (KV-32V40 ONLY)	
2	*	A-1372-509-A	HV BOARD, COMPLETE (EXCEPT KV-32V40)	
3	*	A-1298-613-A	A BOARD, COMPLETE (KV-34VL65C/32V65/34VL65)	
3	*	A-1298-647-A	A BOARD, COMPLETE (KV-35V65/37VL65/37VL65C)	
3	*	A-1298-611-A	A BOARD, COMPLETE (KV-32V40 ONLY)	
4	⚠	8-598-431-00	TUNER, FSS BTF-WA411	
5	⚠	1-453-207-11	TRANSFORMER, FBT ASSY NX-2609//X4C (KV-32V40/34VL65C/32V65/34VL65)	
5	⚠	X-4034-797-1	TRANSFORMER, FBT ASSY NX-3005//J1C (KV-35V65/37VL65/37VL65C)	
6	*	A-1195-138-A	P BOARD, COMPLETE (EXCEPT KV-32V40)	
7	*	A-1298-612-A	AV BOARD, COMPLETE (EXCEPT KV-32V40)	
8	⚠	8-598-430-00	TUNER, FSS BTF-FA401 (EXCEPT 32V40)	
9	*	1-556-056-01	CABLE, P-P (EXCEPT KV-32V40)	
10	*	1-557-945-21	CABLE, P-P (EXCEPT KV-32V40)	
11		1-766-374-11	PLUG, F-PIN (KV-32V40 ONLY)	
12		8-598-414-00	ANTENNA SWITCH (KV-35V65/37VL65/37VL65C)	
13	*	A-1394-905-A	UV BOARD,COMPLETE (KV-32V40 ONLY)	
13	*	A-1394-906-A	UV BOARD, COMPLETE (EXCEPT KV-32V40)	
14		3-696-606-02	HINGE, VI (KV-32V40 ONLY)	
15	*	A-1135-948-A	B BOARD, COMPLETE (KV-32V40 ONLY)	
15	*	A-1135-949-A	B BOARD, COMPLETE (EXCEPT KV-32V40)	
16	*	A-1380-585-A	K BOARD, MOUNTED (EXCEPT KV-32V40)	
17	*	A-1316-389-A	G BOARD, COMPLETE (KV-32V40)	
17	*	A-1316-390-A	G BOARD, COMPLETE (KV-34VL65C)	
17	*	A-1316-391-A	G BOARD, COMPLETE (KV-32V65/34VL65)	
17	*	A-1316-405-A	G BOARD, COMPLETE (KV-35V65/37VL65)	
17	*	A-1316-406-A	G BOARD, COMPLETE (KV-37VL65C)	
18	⚠	1-751-059-11	CORD, POWER (WITH CONNECTOR)	
19		4-052-905-01	V5/6 BRACKET (KV-35V65/37VL65/37VL65C)	
20		4-052-903-11	COVER, REAR (KV-35V65/37VL65/37VL65C)	
20		4-053-766-21	COVER, REAR (KV-32V65/34VL65C/34VL65)	
20		4-053-766-31	COVER, REAR (KV-32V40)	
21	*	4-052-898-41	LABEL, TERMINAL (EXCEPT KV-32V40)	
21	*	4-052-899-31	LABEL, TERMINAL (KV-32V40 ONLY)	
22		4-374-745-31	CUSHION (A) (KV-32V40/34VL65C/32V65/34VL65)	
23		X-4035-400-1	BAFFLE ASSY (KV-32V40/34VL65C/32V65/34VL65)	
24		1-503-326-21	SPEAKER (8CM) (KV-34VL65C/32V65/34VL65)	
24		1-504-524-31	SPEAKER (8CM) (KV-32V40 ONLY)	
25		X-4035-401-1	COVER ASSY (KV-32V40/34VL65C/32V65/34VL65)	
26		1-505-684-11	SPEAKER UNIT, BOX TYPE 2 WAY (KV-35V65/37VL65/37VL65C)	

The components identified by shading and "⚠" mark are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-4. PICTURE TUBE (KV-32V40/32V65/34VL65)

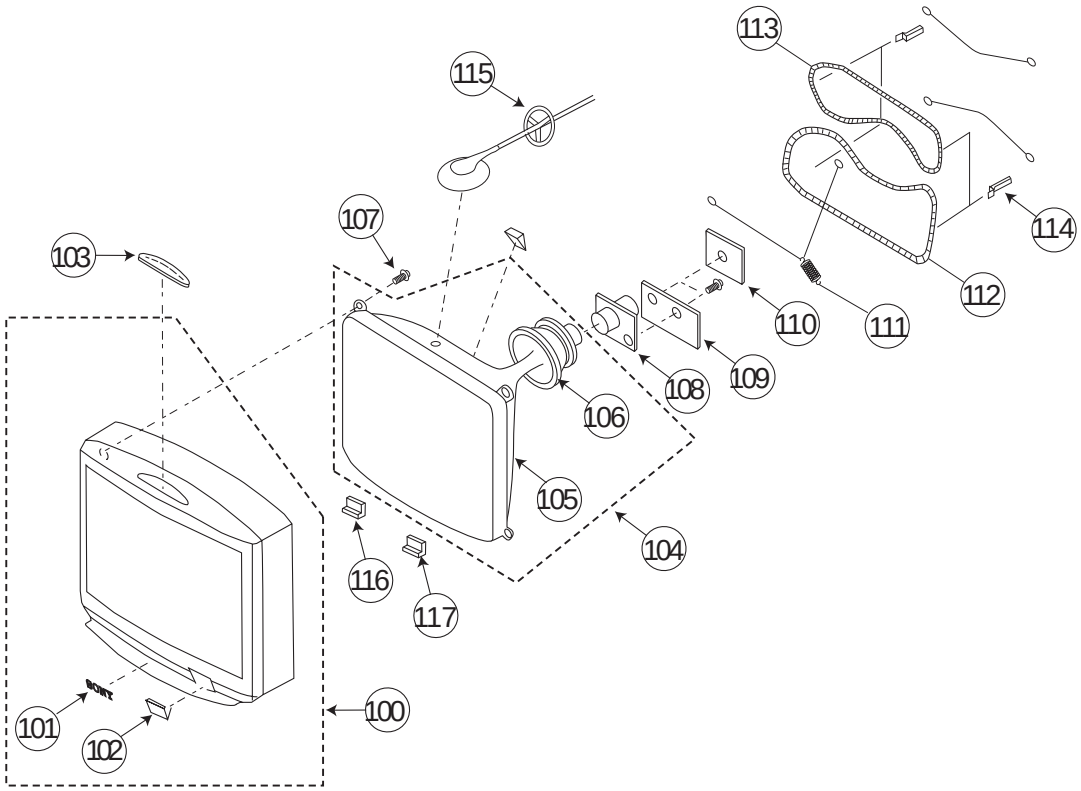


REF.NO.		PART NO.	DESCRIPTION	REMARK
50		X-4035-591-1	BEZNET ASSY (KV-32V40 ONLY)	51,52
50		X-4035-592-1	BEZNET ASSY (KV-34VL65C/32V65/34VL65)	51,52
51		4-046-160-01	EMBLEM, (NO.9) SONY (KV-32V40 ONLY)	
52		4-052-906-01	DOOR, CONTROL (KV-32V40 ONLY)	
52		4-052-906-11	DOOR, CONTROL (EXCEPT KV-32V40)	
53		1-473-549-21	SWITCH, BLOCK CONTROL (KV-34VL65C/32V65/34VL65)	
54		4-052-907-11	BUTTON, MULTI (KV-32V40 ONLY)	
55	*	4-052-897-01	GUIDE, LED	
56	⚠	8-733-756-05	CRT 34FX2T A80JYV52X (KV-34VL65C)	
56	⚠	8-733-757-05	CRT34FX2T A80JYV52X (KV-32V40/32V65/34VL65)	
57		4-053-005-01	SPACER, DY	
58	⚠	8-451-482-21	DY Y34FXA2-X	
59	⚠	1-452-579-21	NECK ASSY	
60	*	A-1372-508-A	WB BOARD, MOUNTED	
61	*	A-1331-837-A	C BOARD, COMPLETE	
62		4-036-329-01	SPRING (B), TENSION	
63	⚠	1-402-952-11	COIL, DEMAGNETIC	
64		4-371-629-01	STOPPER, WIRE	
65		4-033-681-01	HOLDER, LEAD	
66		4-041-268-01	SCREW (7), TAPPING	
67		1-452-885-11	MAGNET, LANDING	
68		4-062-047-01	PIECE A (110), CORR. CONV.	

The components identified by shading and "⚠" mark are critical for safety. Replace only with specified part number.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-5. PICTURE TUBE (KV-35VL65C/35V65/37VL65/37VL65C)



REF.NO.	PART NO.	DESCRIPTION	REMARK
100	X-4035-594-1	BEZNET ASSY	101,102
101	4-046-160-01	EMBLEM, (NO. 9), SONY	
102	4-052-906-11	DOOR, CONTROL	
103	1-473-549-21	SWITCH, BLOCK CONTROL	
104 ⚠	8-733-761-61	ITC 37GXT-A1	105,106
105 ⚠	8-733-761-05	CRT 37GXT	
106 ⚠	8-451-480-11	DY Y37GXA-X	
107	4-046-765-01	SCREW, TAPPING	
108 ⚠	8-453-007-11	NA324-M	
109 *	A-1372-462-A	WA BOARD, MOUNTED	
110 *	A-1331-843-A	C BOARD, COMPLETE	
111	4-036-329-01	SPRING (B), TENSION	
112 ⚠	1-411-882-11	COIL, DEMAGNETIC	
113 ⚠	1-411-881-11	COIL, DEMAGNETIC	
114 *	4-052-900-02	HOLDER, DGC	
115	3-704-372-31	HOLDER, HV	
116	4-052-902-01	CRT SUPPORT (L)	
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ELECTRICAL PARTS LIST

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Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) on the A board schematic or by the word "variant" on the common parts list.

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SECTION 8
ELECTRICAL PARTS LIST (FOR S SERIES)

Note:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF = µF

INDUCTORS
- UH = µH, MMH = mH

When indicating parts by reference number, please include the board name.

A

*** A-1298-630-A A BOARD, COMPLETE**
(KV-32S40/34SL40/34SL40C only)
*** A-1298-631-A A BOARD, COMPLETE** (KV-32S45/34SL45 only)
*** A-1298-645-A A BOARD, COMPLETE** (KV-35S40 only)
*** A-1298-646-A A BOARD, COMPLETE** (KV-35S45/37SL45 only)
*** A-1298-661-A A BOARD, COMPLETE** (KV-34SL40T only)

1-923-513-27	WIRE UL1007 AWG22 180MM GRY	
4-382-854-11	SCREW (M3X10), P, SW (+)	

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C001	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C003	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C005	1-126-960-11	ELECT	1MF	20%	50V
C009	1-126-967-11	ELECT	47MF	20%	50V
C010	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C012	1-216-033-00	RES, CHIP	220	5%	1/10W
C013	1-216-121-91	RES, CHIP	1M	5%	1/10W
C014	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C023	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C028	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C029	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C030	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C035	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C036	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C037	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C038	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C039	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C040	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C051	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C056	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C061	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C062	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C063	1-126-935-11	ELECT	470MF	20%	16V
C068		VARIANT (SEE VARIANT PARTS LIST)			
C069		VARIANT (SEE VARIANT PARTS LIST)			
C070	1-126-967-11	ELECT	47MF	20%	50V
C071	1-164-096-11	CERAMIC CHIP	0.01MF		50V
C072	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C075	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C353	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C354	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C355	1-126-959-11	ELECT	0.47MF	20%	50V
C356	1-126-963-11	ELECT	4.7MF	20%	50V
C357	1-126-959-11	ELECT	0.47MF	20%	50V
C358	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C359	1-126-933-11	ELECT	100MF	20%	16V
C363	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C364	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C365	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C366	1-130-495-00	FILM	0.1MF	5%	50V
C367	1-130-495-00	FILM	0.1MF	5%	50V
C368	1-130-495-00	FILM	0.1MF	5%	50V
C369	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C370		VARIANT (SEE VARIANT PARTS LIST)			
C371	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C372	1-126-959-11	ELECT	0.47MF	20%	50V
C373	1-126-960-11	ELECT	1MF	20%	50V
C375		VARIANT (SEE VARIANT PARTS LIST)			
C376	1-126-964-11	ELECT	10MF	20%	50V
C377	1-130-495-00	FILM	0.1MF	5%	50V
C378	1-130-495-00	FILM	0.1MF	5%	50V
C379	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C380	1-126-935-11	ELECT	470MF	20%	16V
C381	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C383	1-130-495-00	FILM	0.1MF	5%	50V
C385	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C386	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C387	1-126-961-11	ELECT	2.2MF	20%	50V
C388	1-126-959-11	ELECT	0.47MF	20%	50V
C390	1-126-960-11	ELECT	1MF	20%	50V
C391	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C392	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C461	1-126-933-11	ELECT	100MF	20%	16V
C462	1-126-961-11	ELECT	2.2MF	20%	50V
C463	1-126-961-11	ELECT	2.2MF	20%	50V
C464	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C466	1-104-666-11	ELECT	220MF	20%	25V
C467	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C468	1-104-664-11	ELECT	47MF	20%	25V
C470	1-126-961-11	ELECT	2.2MF	20%	50V
C471	1-104-666-11	ELECT	220MF	20%	25V
C472	1-136-173-00	FILM	0.47MF	5%	50V
C473	1-136-169-00	FILM	0.22MF	5%	50V
C474	1-126-942-61	ELECT	1000MF	20%	25V
C475	1-136-169-00	FILM	0.22MF	5%	50V
C476	1-126-942-61	ELECT	1000MF	20%	25V
C477	1-126-942-61	ELECT	1000MF	20%	25V
C501	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C502	1-126-959-11	ELECT	0.47MF	20%	50V
C503	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C504	1-102-212-00	CERAMIC CHIP	820PF	10%	500V
C505	1-102-002-00	CERAMIC CHIP	680PF	10%	500V
C506	1-106-383-00	MYLAR	0.047MF	10%	200V
C507 ⚠	1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C508	1-102-244-00	CERAMIC CHIP	220PF	10%	500V
C509	1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C510	1-137-150-11	MYLAR	0.01MF	10%	100V
C511 ⚠	1-115-460-11	FILM	0.022MF	3%	1.2KV
C513		VARIANT (SEE VARIANT PARTS LIST)			
C514		VARIANT (SEE VARIANT PARTS LIST)			
C515	1-106-343-00	MYLAR	0.001MF	10%	100V
C516	1-115-461-11	FILM	2MF	5%	200V
C517	1-107-649-11	ELECT	2.2MF	20%	250V
C518	1-106-395-00	MYLAR	0.15MF	10%	200V
C519	1-162-815-11	CERAMIC CHIP	47PF	5%	500V
C520		VARIANT (SEE VARIANT PARTS LIST)			
C521		VARIANT (SEE VARIANT PARTS LIST)			
C522	1-126-960-11	ELECT	1MF	20%	50V
C525	1-102-244-00	CERAMIC CHIP	220PF	10%	500V
C526	1-107-662-11	ELECT	22MF	20%	250V
C527	1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C528	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C529	1-128-551-11	ELECT	22MF	20%	25V
C530	1-137-366-11	FILM	0.0022MF	5%	50V
C531	1-126-965-11	ELECT	22MF	20%	50V
C532	1-126-965-11	ELECT	22MF	20%	50V
C537		VARIANT (SEE VARIANT PARTS LIST)			
C539		VARIANT (SEE VARIANT PARTS LIST)			
C540	1-123-024-21	ELECT	33MF		160V
C541	1-128-560-11	ELECT	22MF	20%	100V
C542		VARIANT (SEE VARIANT PARTS LIST)			

REF.NO.	PART NO.	DESCRIPTION			REMARK
C545	1-106-387-00	MYLAR	0.068MF	10%	200V
C546	1-106-343-00	MYLAR	0.001MF	10%	100V
C547	1-106-343-00	MYLAR	0.001MF	10%	100V
C551	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C561	1-126-967-11	ELECT	47MF	20%	50V
C563	1-126-934-11	ELECT	220MF	20%	10V
C564	1-126-960-11	ELECT	1MF	20%	50V
C565	1-126-969-11	ELECT	220MF	20%	50V
C566	1-126-964-11	ELECT	10MF	20%	50V
C568	1-136-169-00	FILM	0.22MF	5%	50V
C571	1-104-664-11	ELECT	47MF	20%	25V
C1002	1-126-964-11	ELECT	10MF	20%	50V
C1101	1-126-768-11	ELECT	2200MF	20%	16V
C1103	1-126-965-11	ELECT	22MF	20%	50V
C1104	1-104-664-11	ELECT	47MF	20%	16V
C1105	1-104-664-11	ELECT	47MF	20%	16V
C1106	1-126-964-11	ELECT	10MF	20%	50V
C1107	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1108	1-126-960-11	ELECT	1MF	20%	50V
C1109	1-126-964-11	ELECT	10MF	20%	50V
C1110	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1111	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1112	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1236	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1237	1-136-161-00	FILM	0.047MF	5%	50V
C1238	1-136-161-00	FILM	0.047MF	5%	50V
C1239	1-126-960-11	ELECT	1MF	20%	50V
C1240	1-126-960-11	ELECT	1MF	20%	50V
C1241		VARIANT (SEE VARIANT PARTS LIST)			
C1242		VARIANT (SEE VARIANT PARTS LIST)			
C1243		VARIANT (SEE VARIANT PARTS LIST)			
C1244	1-126-959-11	ELECT	0.47MF	20%	50V
C1245	1-126-959-11	ELECT	0.47MF	20%	50V
C1261	1-104-664-11	ELECT	47MF	20%	16V
C1262	1-104-664-11	ELECT	47MF	20%	16V
C1263	1-126-960-11	ELECT	1MF	20%	50V
C1264	1-126-960-11	ELECT	1MF	20%	50V
C1267	1-136-161-00	FILM	0.047MF	5%	50V
C1268	1-126-960-11	ELECT	1MF	20%	50V
C1269	1-126-960-11	ELECT	1MF	20%	50V
C1293	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1351	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1352	1-126-933-11	ELECT	100MF	20%	16V
C1353	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1354	1-216-295-91	SHORT			
C1401	1-126-959-11	ELECT	0.47MF	20%	50V
C1402	1-104-664-11	ELECT	47MF	20%	25V
C1403	1-126-959-11	ELECT	0.47MF	20%	50V
C1404	1-126-956-91	ELECT	0.1MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C1405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1406	1-126-956-91	ELECT	0.1MF	20%	50V
C1407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1408	1-126-963-11	ELECT	4.7MF	20%	50V
C1409	1-126-963-11	ELECT	4.7MF	20%	50V
C1410	1-126-956-91	ELECT	0.1MF	20%	50V
C1411	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1413	1-126-963-11	ELECT	4.7MF	20%	50V
C1415	1-126-964-11	ELECT	10MF	20%	50V
C1416	1-126-963-11	ELECT	4.7MF	20%	50V
C1417	1-126-767-11	ELECT	1000MF	20%	16V
C1420	1-126-963-11	ELECT	4.7MF	20%	50V
C1501		VARIANT (SEE VARIANT PARTS LIST)			

CONNECTOR

CN270	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	
CN351 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN461 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN501 *	1-580-798-11	CONNECTOR 6P	
CN503 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN1001		VARIANT (SEE VARIANT PARTS LIST)	
CN1641 *	1-564-515-11	PLUG, CONNECTOR 12P	
CN1941 *	1-564-508-11	PLUG, CONNECTOR 8P	
CN3001		VARIANT (SEE VARIANT PARTS LIST)	

DIODE

D001	8-719-991-33	DIODE 1SS133T-77
D002	8-719-109-89	DIODE RD5.6ESB2
D003	8-719-991-33	DIODE 1SS133T-77
D004	8-719-110-17	DIODE RD10ESB2
D005		VARIANT (SEE VARIANT PARTS LIST)
D006		VARIANT (SEE VARIANT PARTS LIST)
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C
D013	8-719-991-33	DIODE 1SS133T-77
D014	8-719-991-33	DIODE 1SS133T-77
D015	8-719-991-33	DIODE 1SS133T-77
D353	8-719-991-33	DIODE 1SS133T-77
D356	8-719-991-33	DIODE 1SS133T-77
D360	8-719-110-17	DIODE RD10ESB2
D362	8-719-991-33	DIODE 1SS133T-77
D368		VARIANT (SEE VARIANT PARTS LIST)
D462	8-719-991-33	DIODE 1SS133T-77
D501	8-719-109-89	DIODE RD5.6ESB2
D502	8-719-945-80	DIODE ERC06-15S
D503	8-719-945-80	DIODE ERC06-15S
D504	8-719-900-26	DIODE ERD29-08J
D505	8-719-908-03	DIODE GP08D
D506	8-719-908-03	DIODE GP08D
D507	8-719-991-33	DIODE 1SS133T-77
D515	8-719-302-43	DIODE EL1Z
D516	8-719-991-33	DIODE 1SS133T-77
D518	8-719-991-33	DIODE 1SS133T-77
D519 ⚠	8-719-302-43	DIODE EL1Z
D520	8-719-991-33	DIODE 1SS133T-77
D521	8-719-921-63	DIODE MTZJ-7.5B
D530	8-719-979-85	DIODE EGP20G
D531	8-719-979-85	DIODE EGP20G
D534	8-719-302-43	DIODE EL1Z
D561	8-719-908-03	DIODE GP08D
D562	8-719-991-33	DIODE 1SS133T-77
D1102	8-719-982-24	DIODE MTZJ-33A
D1103	8-719-109-89	DIODE RD5.6ESB2
D1247	8-719-110-17	DIODE RD10ESB2
D1248	8-719-981-99	DIODE MTZJ-3.3
D1261	8-719-110-17	DIODE RD10ESB2
D1262	8-719-110-17	DIODE RD10ESB2
D1263	8-719-110-17	DIODE RD10ESB2
D1264	8-719-110-17	DIODE RD10ESB2

FERRITE BEAD

FB501	1-410-396-41	FERRITE 0.45UH
FB502	1-410-397-21	FERRITE 1.1UH
FB503	1-410-397-21	FERRITE 1.1UH

IC

IC001	8-752-897-18	IC CXP85840A-011S
IC002	8-759-527-74	IC M24C02-MN6T
IC003		VARIANT (SEE VARIANT PARTS LIST)
IC351	8-752-082-73	IC CXA2095S
IC461	8-759-980-43	IC TDA2009A
IC501	8-759-700-07	IC NJM2903M
IC561	8-759-980-58	IC TDA8172
IC1261		VARIANT (SEE VARIANT PARTS LIST)
IC1401	8-752-072-39	IC CXA2021S
IC1402	8-759-100-96	IC UPC4558G2

JACK

J1232	1-774-751-11	TERMINAL BLOCK, S
J1233		VARIANT (SEE VARIANT PARTS LIST)
J1234	1-774-750-11	JACK BLOCK, PIN

CHIP CONDUCTOR

JR351		VARIANT (SEE VARIANT PARTS LIST)
JR352		VARIANT (SEE VARIANT PARTS LIST)
JR501	1-216-295-91	SHORT
JR1264		VARIANT (SEE VARIANT PARTS LIST)
JR1450	1-216-295-91	SHORT
JR1451	1-216-295-91	SHORT

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REF.NO.		PART NO.	DESCRIPTION	REMARK
JR1454		1-216-295-91	SHORT	
JR1455		1-216-295-91	SHORT	
JR1801		1-216-295-91	SHORT	
JR1802		1-216-295-91	SHORT	
JR1803		1-216-295-91	SHORT	
JR1804		1-216-295-91	SHORT	
JR4120		1-216-295-91	SHORT	
		COIL		
L001		1-408-421-00	INDUCTOR 100UH	
L002		1-408-421-00	INDUCTOR 100UH	
L003		1-410-470-11	INDUCTOR 10UH	
L004		1-410-470-11	INDUCTOR 10UH	
L352		1-412-537-31	INDUCTOR 100UH	
L461		1-408-602-31	INDUCTOR 8.2UH	
L501	⚠	1-411-976-11	COIL, HORIZONTAL LINEARITY	
L502		1-412-552-11	INDUCTOR 2.2MMH	
L503		1-406-677-11	INDUCTOR	
L511		1-406-607-41	INDUCTOR	
L517		1-412-552-11	INDUCTOR 2.2MMH	
L541			VARIANT (SEE VARIANT PARTS LIST)	
L1101		1-408-421-00	INDUCTOR 100UH	
L1102		1-410-470-11	INDUCTOR 10UH	
L1401		1-410-494-11	INDUCTOR 1MMH	
		IC LINK		
PS461	⚠	1-532-984-11	LINK, IC 2A/90V	
		TRANSISTOR		
Q001		8-729-216-22	TRANSISTOR 2SA1162-G	
Q002		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004		8-729-216-22	TRANSISTOR 2SA1162-G	
Q010		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017		8-729-216-22	TRANSISTOR 2SA1162-G	
Q301		8-729-216-22	TRANSISTOR 2SA1162-G	
Q302		8-729-216-22	TRANSISTOR 2SA1162-G	
Q303		8-729-216-22	TRANSISTOR 2SA1162-G	
Q354		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356		8-729-216-22	TRANSISTOR 2SA1162-G	
Q357		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q358		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q462		8-729-216-22	TRANSISTOR 2SA1162-G	
Q501		8-729-140-50	TRANSISTOR 2SC3209LK	
Q502	⚠	8-729-035-75	TRANSISTOR 2SC5148(LBSONY)	
Q511	⚠	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512	⚠	8-729-809-29	TRANSISTOR 2SC4159-E	
Q551		8-729-216-22	TRANSISTOR 2SA1162-G	
Q552		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q561		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563		8-729-105-08	TRANSISTOR 2SA1330-06	
Q1102		8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1103		8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1231		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1232		8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1261		8-729-216-22	TRANSISTOR 2SA1162-G	
Q1262		8-729-216-22	TRANSISTOR 2SA1162-G	
Q1263		8-729-422-27	TRANSISTOR 2SD601A-Q	
		RESISTOR		
R001		1-216-045-00	RES, CHIP 680 5% 1/10W	
R002		1-247-815-91	CARBON 220 5% 1/4W	
R003		1-216-097-91	RES, CHIP 100K 5% 1/10W	
R004		1-216-121-91	RES, CHIP 1M 5% 1/10W	
R007		1-216-073-00	RES, CHIP 10K 5% 1/10W	
R009		1-216-073-00	RES, CHIP 10K 5% 1/10W	
R010		1-216-037-00	RES, CHIP 330 5% 1/10W	
R011		1-216-065-91	RES, CHIP 4.7K 5% 1/10W	
R012			VARIANT (SEE VARIANT PARTS LIST)	
R013		1-216-065-91	RES, CHIP 4.7K 5% 1/10W	
R014		1-216-065-91	RES, CHIP 4.7K 5% 1/10W	
R015		1-216-073-00	RES, CHIP 10K 5% 1/10W	
R016		1-216-073-00	RES, CHIP 10K 5% 1/10W	
R019		1-249-425-11	CARBON 4.7K 5% 1/4W	
R020		1-216-065-91	RES, CHIP 4.7K 5% 1/10W	
R022			VARIANT (SEE VARIANT PARTS LIST)	
R023		1-216-089-91	RES, CHIP 47K 5% 1/10W	
R024		1-249-381-11	CARBON 1 5% 1/4W	
R025		1-163-010-11	CERAMIC CHIP 0.0012MF 10% 50V	
R026		1-163-038-91	CERAMIC CHIP 0.1MF 25V	
R027		1-249-389-11	CARBON 4.7 5% 1/4W	
R028		1-249-417-11	CARBON 1K 5% 1/4W	
R029		1-216-025-91	RES, CHIP 100 5% 1/10W	
R030		1-249-425-11	CARBON 4.7K 5% 1/4W	
R031			VARIANT (SEE VARIANT PARTS LIST)	
R032		1-247-815-91	CARBON 220 5% 1/4W	
R036		1-216-049-91	RES, CHIP 1K 5% 1/10W	
R037		1-216-049-91	RES, CHIP 1K 5% 1/10W	
R038		1-216-049-91	RES,CHIP 1K 5% 1/10W	
R039		1-247-807-31	CARBON 100 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R044	1-216-033-00	RES, CHIP	220	5%	1/10W
R046	1-247-815-91	CARBON	220	5%	1/4W
R047	1-249-417-11	CARBON	1K	5%	1/4W
R048	1-249-417-11	CARBON	1K	5%	1/4W
R049	1-249-417-11	CARBON	1K	5%	1/4W
R052	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R053	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R054	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R055	1-216-097-91	RES, CHIP	100K	5%	1/10W
R056	1-216-033-00	RES, CHIP	220	5%	1/10W
R057	1-249-417-11	CARBON	1K	5%	1/4W
R058	1-216-033-00	RES, CHIP	220	5%	1/10W
R059		VARIANT (SEE VARIANT PARTS LIST)			
R060		VARIANT (SEE VARIANT PARTS LIST)			
R061		VARIANT (SEE VARIANT PARTS LIST)			
R062		VARIANT (SEE VARIANT PARTS LIST)			
R063		VARIANT (SEE VARIANT PARTS LIST)			
R064	1-216-033-00	RES, CHIP	220	5%	1/10W
R065	1-216-033-00	RES, CHIP	220	5%	1/10W
R066	1-216-033-00	RES, CHIP	220	5%	1/10W
R067	1-216-041-00	RES, CHIP	470	5%	1/10W
R068	1-247-815-91	CARBON	220	5%	1/4W
R069		VARIANT (SEE VARIANT PARTS LIST)			
R070	1-249-421-11	CARBON	2.2K	5%	1/4W
R071	1-247-815-91	CARBON	220	5%	1/4W
R072	1-216-033-00	RES, CHIP	220	5%	1/10W
R073	1-216-033-00	RES, CHIP	220	5%	1/10W
R074	1-216-033-00	RES, CHIP	220	5%	1/10W
R075	1-216-033-00	RES, CHIP	220	5%	1/10W
R076	1-216-033-00	RES, CHIP	220	5%	1/10W
R077	1-216-033-00	RES, CHIP	220	5%	1/10W
R078	1-249-417-11	CARBON	1K	5%	1/4W
R079	1-216-033-00	RES, CHIP	220	5%	1/10W
R080	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R081	1-216-025-91	RES, CHIP	100	5%	1/10W
R082	1-216-025-91	RES, CHIP	100	5%	1/10W
R083	1-249-429-11	CARBON	10K	5%	1/4W
R084	1-216-049-91	RES, CHIP	1K	5%	1/10W
R085		VARIANT (SEE VARIANT PARTS LIST)			
R087	1-247-815-91	CARBON	220	5%	1/4W
R092	1-249-429-11	CARBON	10K	5%	1/4W
R093	1-249-387-11	CARBON	3.3	5%	1/4W
R094	1-249-381-11	CARBON	1	5%	1/4W
R096	1-216-347-11	METAL	0.68	5%	1W
R097	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R098	1-249-379-11	CARBON	0.68	5%	1/4W
R099	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R131	1-216-035-00	RES, CHIP	270	5%	1/10W
R132	1-216-115-00	RES, CHIP	560K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R133	1-216-039-00	RES, CHIP	390	5%	1/10W
R135	1-216-073-00	RES, CHIP	10K	5%	1/10W
R136	1-216-073-00	RES, CHIP	10K	5%	1/10W
R137	1-216-049-91	RES, CHIP	1K	5%	1/10W
R353	1-208-788-11	RES, CHIP	1.8K	0.50%	1/10W
R354	1-216-077-00	RES, CHIP	15K	5%	1/10W
R355	1-216-033-00	RES, CHIP	220	5%	1/10W
R356	1-216-033-00	RES, CHIP	220	5%	1/10W
R358		VARIANT (SEE VARIANT PARTS LIST)			
R359		VARIANT (SEE VARIANT PARTS LIST)			
R360		VARIANT (SEE VARIANT PARTS LIST)			
R361	1-216-025-91	RES, CHIP	100	5%	1/10W
R362	1-216-025-91	RES, CHIP	100	5%	1/10W
R363	1-216-025-91	RES, CHIP	100	5%	1/10W
R364	1-216-101-00	RES, CHIP	150K	5%	1/10W
R365		VARIANT (SEE VARIANT PARTS LIST)			
R366	1-216-089-91	RES, CHIP	47K	5%	1/10W
R367	1-216-097-91	RES, CHIP	100K	5%	1/10W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-216-097-91	RES, CHIP	100K	5%	1/10W
R370	1-249-417-11	CARBON	1K	5%	1/4W
R371	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R372	1-216-113-00	RES, CHIP	470K	5%	1/10W
R373	1-216-073-00	RES, CHIP	10K	5%	1/10W
R374		VARIANT (SEE VARIANT PARTS LIST)			
R375	1-216-025-91	RES, CHIP	100	5%	1/10W
R376	1-216-073-00	RES, CHIP	10K	5%	1/10W
R379	1-216-033-00	RES, CHIP	220	5%	1/10W
R380	1-247-815-91	CARBON	220	5%	1/4W
R381	1-247-815-91	CARBON	220	5%	1/4W
R382	1-216-033-00	RES, CHIP	220	5%	1/10W
R383	1-216-049-91	RES, CHIP	1K	5%	1/10W
R384	1-216-109-00	RES, CHIP	330K	5%	1/10W
R385	1-249-422-11	CARBON	2.7K	5%	1/4W
R386		VARIANT (SEE VARIANT PARTS LIST)			
R387	1-216-049-91	RES, CHIP	1K	5%	1/10W
R388	1-216-089-91	RES, CHIP	47K	5%	1/10W
R389	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R390	1-216-035-00	RES, CHIP	270	5%	1/10W
R391	1-208-810-11	RES, CHIP	15K	0.50%	1/10W
R392	1-216-025-91	RES, CHIP	100	5%	1/10W
R393	1-216-043-91	RES, CHIP	560	5%	1/10W
R394	1-216-059-00	RES, CHIP	2.7K	5%	1/10W
R395	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R396	1-249-417-11	CARBON	1K	5%	1/4W
R397	1-249-425-11	CARBON	4.7K	5%	1/4W
R461	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R462	1-216-089-91	RES, CHIP	47K	5%	1/10W
R463	1-249-435-11	CARBON	33K	5%	1/4W

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R464	1-216-097-91	RES, CHIP	100K	5%	1/10W
R465	1-249-413-11	CARBON	470	5%	1/4W
R466	1-249-388-11	CARBON	3.9	5%	1/4W
R467	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R469		VARIANT (SEE VARIANT PARTS LIST)			
R470	1-216-077-00	RES, CHIP	15K	5%	1/10W
R471	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R472		VARIANT (SEE VARIANT PARTS LIST)			
R473	1-249-398-11	CARBON	27	5%	1/4W
R474	1-216-077-00	RES, CHIP	15K	5%	1/10W
R475	1-249-430-11	CARBON	12K	5%	1/4W
R476	1-249-430-11	CARBON	12K	5%	1/4W
R477	1-249-398-11	CARBON	27	5%	1/4W
R478	1-249-418-11	CARBON	1.2K	5%	1/4W
R479	1-249-418-11	CARBON	1.2K	5%	1/4W
R480	1-249-385-11	CARBON	2.2	5%	1/4W
R481	1-249-385-11	CARBON	2.2	5%	1/4W
R482	1-249-421-11	CARBON	2.2K	5%	1/4W
R483	1-249-421-11	CARBON	2.2K	5%	1/4W
R501	1-216-037-00	RES, CHIP	330	5%	1/10W
R502	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R503	1-249-426-11	CARBON	5.6K	5%	1/4W
R504 ⚠	1-215-915-11	METAL	470	5%	3W
R505	1-249-431-11	CARBON	15K	5%	1/4W
R506	1-215-861-00	METAL	47	5%	1W
R507	1-249-401-11	CARBON	47	5%	1/4W
R508	1-249-427-11	CARBON	6.8K	5%	1/4W
R509	1-247-750-11	CARBON	680	5%	1/2W
R510 ⚠	1-215-860-11	METAL	33	5%	1W
R511		VARIANT (SEE VARIANT PARTS LIST)			
R512 ⚠	1-215-886-11	METAL	100	5%	2W
R515		VARIANT (SEE VARIANT PARTS LIST)			
R516	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R517	1-249-415-11	CARBON	680	5%	1/4W
R518	1-216-073-00	RES, CHIP	10K	5%	1/10W
R519	1-249-411-11	CARBON	330	5%	1/4W
R521 ⚠	1-215-915-11	METAL	470	5%	3W
R523		VARIANT (SEE VARIANT PARTS LIST)			
R524	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R528	1-216-081-00	RES, CHIP	22K	5%	1/10W
R529		VARIANT (SEE VARIANT PARTS LIST)			
⋈ R530 ⚠	1-208-808-11	RES, CHIP	12K	0.50%	1/10W
R531		VARIANT (SEE VARIANT PARTS LIST)			
R532	1-208-760-11	RES, CHIP	120	0.50%	1/10W
R533		VARIANT (SEE VARIANT PARTS LIST)			
R535		VARIANT (SEE VARIANT PARTS LIST)			
R536 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R537 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R538	1-247-887-00	CARBON	220K	5%	1/4W
R541		VARIANT (SEE VARIANT PARTS LIST)			
R542		VARIANT (SEE VARIANT PARTS LIST)			
R543	1-249-377-11	CARBON	0.47	5%	1/4W
R546		VARIANT (SEE VARIANT PARTS LIST)			
R547	1-215-457-00	METAL	33K	1%	1/4W
R549	1-215-437-00	METAL	4.7K	1%	1/4W
R550 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R551 ⚠	1-215-873-00	METAL	4.7K	5%	1W
R552	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R553 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R554	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R561	1-216-073-00	RES, CHIP	10K	5%	1/10W
R563 ⚠	1-216-351-00	METAL	1.5	5%	1W
R564	1-249-393-11	CARBON	10	5%	1/4W
R565 ⚠	1-215-890-11	METAL	470	5%	2W
R566	1-216-073-00	RES, CHIP	10K	5%	1/10W
R567 ⚠	1-249-385-11	CARBON	2.2	5%	1/4W
R568	1-216-073-00	RES, CHIP	10K	5%	1/10W
R569	1-216-073-00	RES, CHIP	10K	5%	1/10W
R570	1-216-097-91	RES, CHIP	100K	5%	1/10W
R571	1-216-081-00	RES, CHIP	22K	5%	1/10W
R572	1-216-081-00	RES, CHIP	22K	5%	1/10W
R573	1-216-097-91	RES, CHIP	100K	5%	1/10W
R574 ⚠	1-216-365-00	METAL	0.47	5%	2W
R575	1-216-113-00	RES, CHIP	470K	5%	1/10W
R576	1-216-073-00	RES, CHIP	10K	5%	1/10W
R577	1-216-097-91	RES, CHIP	100K	5%	1/10W
R578	1-208-784-11	RES, CHIP	1.2K	0.50%	1/10W
R579	1-208-842-11	RES, CHIP	330K	0.50%	1/10W
R580	1-249-441-11	CARBON	100K	5%	1/4W
R1009		VARIANT (SEE VARIANT PARTS LIST)			
R1010		VARIANT (SEE VARIANT PARTS LIST)			
R1101	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1102	1-215-900-11	METAL	22K	5%	2W
R1103	1-216-051-00	RES, CHIP	1.2K	5%	1/10W
R1104	1-216-083-00	RES, CHIP	27K	5%	1/10W
R1105	1-216-689-11	RES, CHIP	39K	5%	1/10W
R1106	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1107	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1108	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1109	1-216-019-00	RES, CHIP	56	5%	1/10W
R1110	1-216-019-00	RES, CHIP	56	5%	1/10W
R1111	1-216-019-00	RES, CHIP	56	5%	1/10W
R1115	1-216-045-00	RES, CHIP	680	5%	1/10W
R1117	1-249-425-11	CARBON	4.7K	5%	1/4W
R1118	1-249-425-11	CARBON	4.7K	5%	1/4W
R1120	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1121	1-216-035-00	RES, CHIP	270	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1122	1-216-115-00	RES, CHIP	560K	5%	1/10W
R1123	1-216-039-00	RES, CHIP	390	5%	1/10W
R1125	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1126	1-216-035-00	RES, CHIP	270	5%	1/10W
R1127	1-216-115-00	RES, CHIP	560K	5%	1/10W
R1128	1-216-039-00	RES, CHIP	390	5%	1/10
R1130	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1234	1-249-441-11	CARBON	100K	5%	1/4W
R1240	1-216-022-00	RES, CHIP	75	5%	1/10W
R1241	1-216-022-00	RES, CHIP	75	5%	1/10W
R1242	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1243	1-249-441-11	CARBON	100K	5%	1/4W
R1244	1-216-022-00	RES, CHIP	75	5%	1/10W
R1245	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1246	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1247	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1248	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1249		VARIANT (SEE VARIANT PARTS LIST)			
R1250		VARIANT (SEE VARIANT PARTS LIST)			
R1251		VARIANT (SEE VARIANT PARTS LIST)			
R1252		VARIANT (SEE VARIANT PARTS LIST)			
R1253		VARIANT (SEE VARIANT PARTS LIST)			
R1254	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1255	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1256	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1257	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1258	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R1259	1-216-097-91	RES, CHIP	100K	5%	1/10W
R1260	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R1261	1-216-033-00	RES, CHIP	220	5%	1/10W
R1262	1-216-025-91	RES, CHIP	100	5%	1/10W
R1263	1-216-033-00	RES, CHIP	220	5%	1/10W
R1264	1-216-025-91	RES, CHIP	100	5%	1/10W
R1265	1-216-033-00	RES, CHIP	220	5%	1/10W
R1266	1-216-025-91	RES, CHIP	100	5%	1/10W
R1267	1-216-295-91	SHORT			
R1268	1-216-025-91	RES, CHIP	100	5%	1/10W
R1270	1-216-025-91	RES, CHIP	100	5%	1/10W
R1273		VARIANT (SEE VARIANT PARTS LIST)			
R1274		VARIANT (SEE VARIANT PARTS LIST)			
R1277	1-247-815-91	CARBON	220	5%	1/4W
R1278	1-247-815-91	CARBON	220	5%	1/4W
R1280	1-216-025-91	RES, CHIP	100	5%	1/10W
R1282	1-216-025-91	RES, CHIP	100	5%	1/10W
R1283		VARIANT (SEE VARIANT PARTS LIST)			
R1284	1-247-807-31	CARBON	100	5%	1/4W
R1286	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1287	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1288	1-247-807-31	CARBON	100	5%	1/4W
R1290	1-216-041-00	RES, CHIP	470	5%	1/10W
R1291	1-216-045-00	RES, CHIP	680	5%	1/10W
R1292	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1293	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1294	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1295	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1296		VARIANT (SEE VARIANT PARTS LIST)			
R1297		VARIANT (SEE VARIANT PARTS LIST)			
R1351	1-247-815-91	CARBON	220	5%	1/4W
R1352	1-247-815-91	CARBON	220	5%	1/4W
R1353	1-247-815-91	CARBON	220	5%	1/4W
R1354	1-216-033-00	RES, CHIP	220	5%	1/10W
R1355	1-216-025-91	RES, CHIP	100	5%	1/10W
R1356	1-216-025-91	RES, CHIP	100	5%	1/10W
R1357	1-216-025-91	RES, CHIP	100	5%	1/10W
R1358	1-247-807-31	CARBON	100	5%	1/4W
R1359	1-216-025-91	RES, CHIP	100	5%	1/10W
R1360	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R1361	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1362	1-216-295-91	SHORT			
R1402	1-249-429-11	CARBON	10K	5%	1/4W
R1404	1-249-429-11	CARBON	10K	5%	1/4W
R1407	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1408	1-249-429-11	CARBON	10K	5%	1/4W
R1409	1-249-429-11	CARBON	10K	5%	1/4W
R1410	1-216-121-91	RES, CHIP	1M	5%	1/10W
R1411	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1412	1-216-081-00	RES, CHIP	22K	5%	1/10W
R1413	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1414	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1415	1-216-025-91	RES, CHIP	100	5%	1/10W
R1418	1-216-081-00	RES, CHIP	22K	5%	1/10W
R1419	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1420	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1421	1-216-025-91	RES, CHIP	100	5%	1/10W
R1424	1-247-815-91	CARBON	220	5%	1/4W
R1425	1-247-815-91	CARBON	220	5%	1/4W

SWITCH

S001		VARIANT (SEE VARIANT PARTS LIST)
S002		VARIANT (SEE VARIANT PARTS LIST)
S003		VARIANT (SEE VARIANT PARTS LIST)
S004		VARIANT (SEE VARIANT PARTS LIST)
S005		VARIANT (SEE VARIANT PARTS LIST)
S006		VARIANT (SEE VARIANT PARTS LIST)
S007		VARIANT (SEE VARIANT PARTS LIST)
S501	1-572-707-11	SWITCH, LEVER

REF.NO.	PART NO.	DESCRIPTION	REMARK
		TRANSFORMER	
T501	1-437-210-11	TRANSFORMER, HORIZONTAL DRIVE	
T502		VARIANT (SEE VARIANT PARTS LIST)	
T503		VARIANT (SEE VARIANT PARTS LIST)	
T504		VARIANT (SEE VARIANT PARTS LIST)	
		TUNER	
TU102		VARIANT (SEE VARIANT PARTS LIST)	
		CRYSTAL	
X001	1-578-774-11	VIBRATOR, CRYSTAL	
X353	1-567-505-11	OSCILLATOR, CRYSTAL	
X354	1-577-611-11	OSCILLATOR, CERAMIC	

REF.NO.	PART NO.	DESCRIPTION	REMARK

SECTION 8
ELECTRICAL PARTS LIST (FOR V SERIES)

Note:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF = µF

INDUCTORS
- UH = µH, MMH = mH

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION			REMARK
A					
	*** A-1298-611-A**	**A BOARD, COMPLETE** (KV-32V40 only)			
	*** A-1298-613-A**	**A BOARD, COMPLETE** (KV-34VL65C/34VL65/32V65CND only)			
	*** A-1298-647-A**	**A BOARD, COMPLETE** (KV-35V65CND/37VL65/37VL65C only)			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	CAPACITOR				
C001	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C003	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C005	1-126-960-11	ELECT	1MF	20%	50V
C009	1-126-967-11	ELECT	47MF	20%	50V
C010	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C012	1-216-033-00	RES, CHIP	220	5%	1/10W
C013	1-216-121-91	RES, CHIP	1M	5%	1/10W
C014	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C023	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C028	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C029	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C030	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C035	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C036	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C037	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C038	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C039	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C040	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C051	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C056	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C061	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C062	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C063	1-126-935-11	ELECT	470MF	20%	16V
C069		VARIANT(SEE VARIANT PARTS LIST)			

REF.NO.	PART NO.	DESCRIPTION			REMARK
C070	1-126-967-11	ELECT	47MF	20%	50V
C071	1-164-096-11	CERAMIC CHIP	0.01MF		50V
C072	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C075	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C353	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C354	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C355	1-126-959-11	ELECT	0.47MF	20%	50V
C356	1-126-963-11	ELECT	4.7MF	20%	50V
C357	1-126-959-11	ELECT	0.47MF	20%	50V
C358	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C359	1-126-933-11	ELECT	100MF	20%	16V
C363	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C364	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C365	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C366	1-130-495-00	FILM	0.1MF	5%	50V
C367	1-130-495-00	FILM	0.1MF	5%	50V
C368	1-130-495-00	FILM	0.1MF	5%	50V
C369	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C370	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C371	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C372	1-126-959-11	ELECT	0.47MF	20%	50V
C373	1-126-960-11	ELECT	1MF	20%	50V
C376	1-126-964-11	ELECT	10MF	20%	50V
C377	1-130-495-00	FILM	0.1MF	5%	50V
C378	1-130-495-00	FILM	0.1MF	5%	50V
C379	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C380	1-126-935-11	ELECT	470MF	20%	16V
C381	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C383	1-130-495-00	FILM	0.1MF	5%	50V
C385	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C386	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C387	1-126-961-11	ELECT	2.2MF	20%	50V
C388	1-126-959-11	ELECT	0.47MF	20%	50V
C390	1-126-960-11	ELECT	1MF	20%	50V
C391	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C392	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C461		VARIANT(SEE VARIANT PARTS LIST)			
C462		VARIANT(SEE VARIANT PARTS LIST)			

Note:

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Note:

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C463		VARIANT(SEE VARIANT PARTS LIST)			
C464		VARIANT(SEE VARIANT PARTS LIST)			
C466		VARIANT(SEE VARIANT PARTS LIST)			
C467		VARIANT(SEE VARIANT PARTS LIST)			
C468		VARIANT(SEE VARIANT PARTS LIST)			
C470		VARIANT(SEE VARIANT PARTS LIST)			
C471		VARIANT(SEE VARIANT PARTS LIST)			
C472		VARIANT(SEE VARIANT PARTS LIST)			
C473		VARIANT(SEE VARIANT PARTS LIST)			
C474		VARIANT(SEE VARIANT PARTS LIST)			
C475		VARIANT(SEE VARIANT PARTS LIST)			
C476		VARIANT(SEE VARIANT PARTS LIST)			
C477		VARIANT(SEE VARIANT PARTS LIST)			
C478		VARIANT(SEE VARIANT PARTS LIST)			
C479		VARIANT(SEE VARIANT PARTS LIST)			
C501	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C502	1-126-959-11	ELECT	0.47MF	20%	50V
C503	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C504	1-102-212-00	CERAMIC CHIP	820PF	10%	500V
C505	1-102-002-00	CERAMIC CHIP	680PF	10%	500V
C506	1-106-383-00	MYLAR	0.047MF	10%	200V
C507 ⚠	1-162-116-00	CERAMIC CHIP2	680PF	10%	2KV
C508	1-102-244-00	CERAMIC CHIP	220PF	10%	500V
C509	1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C510	1-137-150-11	MYLAR	0.01MF	10%	100V
C511 ⚠	1-115-460-11	FILM	0.022MF	3%	1.2KV
C513		VARIANT(SEE VARIANT PARTS LIST)			
C514		VARIANT(SEE VARIANT PARTS LIST)			
C515	1-106-343-00	MYLAR	0.001MF	10%	100V
C516	1-115-461-11	FILM	2MF	5%	200V
C517	1-107-649-11	ELECT	2.2MF	20%	250V
C518	1-106-395-00	MYLAR	0.15MF	10%	200V
C519	1-162-815-11	CERAMIC CHIP	47PF	5%	500V
C520		VARIANT(SEE VARIANT PARTS LIST)			
C521		VARIANT(SEE VARIANT PARTS LIST)			
C522	1-126-960-11	ELECT	1MF	20%	50V
C525	1-102-244-00	CERAMIC CHIP	220PF	10%	500V
C526	1-107-662-11	ELECT	22MF	20%	250V
C527	1-162-116-00	CERAMIC CHIP	680PF	10%	2KV
C528	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C529	1-128-551-11	ELECT	22MF	20%	25V
C530	1-137-366-11	FILM	0.0022MF	5%	50V
C531	1-126-965-11	ELECT	22MF	20%	50V
C532	1-126-965-11	ELECT	22MF	20%	50V
C537		VARIANT(SEE VARIANT PARTS LIST)			
C539		VARIANT(SEE VARIANT PARTS LIST)			
C540	1-123-024-21	ELECT	33MF		160V
C541	1-128-560-11	ELECT	22MF	20%	100V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C542		VARIANT(SEE VARIANT PARTS LIST)			
C545	1-106-387-00	MYLAR	0.068MF	10%	200V
C546	1-106-343-00	MYLAR	0.001MF	10%	100V
C547	1-106-343-00	MYLAR	0.001MF	10%	100V
C551	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C561	1-126-967-11	ELECT	47MF	20%	50V
C563	1-126-934-11	ELECT	220MF	20%	10V
C564	1-126-960-11	ELECT	1MF	20%	50V
C565	1-126-969-11	ELECT	220MF	20%	50V
C566	1-126-964-11	ELECT	10MF	20%	50V
C568	1-136-169-00	FILM	0.22MF	5%	50V
C571	1-104-664-11	ELECT	47MF	20%	25V
C1002	1-126-964-11	ELECT	10MF	20%	50V
C1101	1-126-768-11	ELECT	2200MF	20%	16V
C1103	1-126-965-11	ELECT	22MF	20%	50V
C1104	1-104-664-11	ELECT	47MF	20%	16V
C1105	1-104-664-11	ELECT	47MF	20%	16V
C1106	1-126-964-11	ELECT	10MF	20%	50V
C1107	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C1108	1-126-960-11	ELECT	1MF	20%	50V
C1109	1-126-964-11	ELECT	10MF	20%	50V
C1110	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1111	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1112	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1351	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1352	1-126-933-11	ELECT	100MF	20%	16V
C1353	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1354	1-216-295-91	SHORT			
C1501		VARIANT(SEE VARIANT PARTS LIST)			

CONNECTOR

CN270	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P
CN271	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P
CN351 *	1-564-509-11	PLUG, CONNECTOR 6P
CN461 *		VARIANT(SEE VARIANT PARTS LIST)
CN501 *	1-580-798-11	CONNECTOR PIN (DY) 6P
CN503 *	1-564-508-11	PLUG, CONNECTOR 5P
CN1001*	1-564-512-11	PLUG, CONNECTOR 9P
CN1101		VARIANT(SEE VARIANT PARTS LIST)
CN1231	1-564-511-11	PLUG, CONNECTOR 8P
CN1641*	1-564-515-11	PLUG, CONNECTOR 12P
CN1941*	1-564-508-11	PLUG, CONNECTOR 5P
CN3001		VARIANT(SEE VARIANT PARTS LIST)

DIODE

D001	8-719-991-33	DIODE 1SS133T-77
D002	8-719-109-89	DIODE RD5.6ESB2
D003	8-719-991-33	DIODE 1SS133T-77

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D004	8-719-110-17	DIODE RD10ESB2	
D011	8-719-983-20	DIODE MTZJ-T-77-4.3C	
D013	8-719-991-33	DIODE 1SS133T-77	
D014	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-991-33	DIODE 1SS133T-77	
D353	8-719-991-33	DIODE 1SS133T-77	
D356	8-719-991-33	DIODE 1SS133T-77	
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D368		VARIANT(SEE VARIANT PARTS LIST)	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
D519 ⚠	8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	
	FERRITE BEAD		
FB501	1-410-396-41	FERRITE 0.45UH	
FB502	1-410-397-21	FERRITE 1.1UH	
FB503	1-410-397-21	FERRITE 1.1UH	
	IC		
IC001	8-752-897-18	IC CXP85840A-011S	
IC002	8-759-527-74	IC M24C02-MN6T	
IC351	8-752-082-73	IC CXA2095S	
IC461		VARIANT(SEE VARIANT PARTS LIST)	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172	

REF.NO.	PART NO.	DESCRIPTION	REMARK
	CHIP CONDUCTOR		
JR001		VARIANT(SEE VARIANT PARTS LIST)	
JR200	1-216-295-91	SHORT	
JR201		VARIANT(SEE VARIANT PARTS LIST)	
JR202		VARIANT(SEE VARIANT PARTS LIST)	
JR351		VARIANT(SEE VARIANT PARTS LIST)	
JR352		VARIANT(SEE VARIANT PARTS LIST)	
JR463		VARIANT(SEE VARIANT PARTS LIST)	
JR501	1-216-295-91	SHORT	
JR1417		VARIANT(SEE VARIANT PARTS LIST)	
JR1454	1-216-295-91	SHORT	
JR1455	1-216-295-91	SHORT	
JR1801	1-216-295-91	SHORT	
JR1802	1-216-295-91	SHORT	
JR1803	1-216-295-91	SHORT	
JR1804	1-216-295-91	SHORT	
JR4120	1-216-295-91	SHORT	
	COIL		
L001	1-408-421-00	INDUCTOR 100UH	
L002	1-408-421-00	INDUCTOR 100UH	
L003	1-410-470-11	INDUCTOR 10UH	
L004	1-410-470-11	INDUCTOR 10UH	
L352	1-412-537-31	INDUCTOR 100UH	
L461		VARIANT(SEE VARIANT PARTS LIST)	
L501 ⚠	1-411-976-11	COIL, HORIZONTAL LINEARITY	
L502	1-412-552-11	INDUCTOR 2.2MMH	
L503	1-406-677-11	INDUCTOR	
L511	1-406-607-41	INDUCTOR	
L517	1-412-552-11	INDUCTOR 2.2MMH	
L541		VARIANT(SEE VARIANT PARTS LIST)	
L1101	1-408-421-00	INDUCTOR 100UH	
L1102	1-410-470-11	INDUCTOR 10UH	
	IC LINK		
PS461		VARIANT(SEE VARIANT PARTS LIST)	
	TRANSISTOR		
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q357	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461		VARIANT(SEE VARIANT PARTS LIST)	
Q462		VARIANT(SEE VARIANT PARTS LIST)	
Q501	8-729-140-50	TRANSISTOR 2SC3209LK	
Q502 ⚠	8-729-035-75	TRANSISTOR 2SC5148(LBSONY)	
Q511 ⚠	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512 ⚠	8-729-809-29	TRANSISTOR 2SC4159-E	
Q551	8-729-216-22	TRANSISTOR 2SA1162-G	
Q552	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-105-08	TRANSISTOR 2SA1330-06	
Q1102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

RESISTOR

R001	1-216-045-00	RES, CHIP	680	5%	1/10W
R002	1-247-815-91	CARBON	220	5%	1/4W
R003	1-216-097-91	RES, CHIP	100K	5%	1/10W
R004	1-216-121-91	RES, CHIP	1M	5%	1/10W
R006		VARIANT(SEE VARIANT PARTS LIST)			
R007	1-216-073-00	RES, CHIP	10K	5%	1/10W
R008		VARIANT(SEE VARIANT PARTS LIST)			
R009	1-216-073-00	RES, CHIP	10K	5%	1/10W
R010	1-216-037-00	RES, CHIP	330	5%	1/10W
R011	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R012		VARIANT(SEE VARIANT PARTS LIST)			
R013	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R014	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R015	1-216-073-00	RES, CHIP	10K	5%	1/10W
R016	1-216-073-00	RES, CHIP	10K	5%	1/10W
R019	1-249-425-11	CARBON	4.7K	5%	1/4W
R020	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R021	1-216-033-00	RES, CHIP	220	5%	1/10W
R022	1-249-429-11	CARBON	10K	5%	1/4W
R023	1-216-089-91	RES, CHIP	47K	5%	1/10W
R024	1-249-381-11	CARBON	1	5%	1/4W
R025	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V
R026	1-163-038-91	CERAMIC CHIP	0.1MF		25V

REF.NO.	PART NO.	DESCRIPTION			REMARK
R027	1-249-389-11	CARBON	4.7	5%	1/4W
R028	1-249-417-11	CARBON	1K	5%	1/4W
R029	1-216-025-91	RES, CHIP	100	5%	1/10W
R030	1-249-425-11	CARBON	4.7K	5%	1/4W
R031		VARIANT(SEE VARIANT PARTS LIST)			
R032	1-247-815-91	CARBON	220	5%	1/4W
R036	1-216-049-91	RES, CHIP	1K	5%	1/10W
R037	1-216-049-91	RES, CHIP	1K	5%	1/10W
R038	1-216-049-91	RES, CHIP	1K	5%	1/10W
R039	1-247-807-31	CARBON	100	5%	1/4W
R040		VARIANT(SEE VARIANT PARTS LIST)			
R041		VARIANT(SEE VARIANT PARTS LIST)			
R042		VARIANT(SEE VARIANT PARTS LIST)			
R044	1-216-033-00	RES, CHIP	220	5%	1/10W
R045		VARIANT(SEE VARIANT PARTS LIST)			
R046	1-247-815-91	CARBON	220	5%	1/4W
R047	1-249-417-11	CARBON	1K	5%	1/4W
R048	1-249-417-11	CARBON	1K	5%	1/4W
R049	1-249-417-11	CARBON	1K	5%	1/4W
R052	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R053	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R054	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R055	1-216-097-91	RES, CHIP	100K	5%	1/10W
R056	1-216-033-00	RES, CHIP	220	5%	1/10W
R057	1-249-417-11	CARBON	1K	5%	1/4W
R058	1-216-033-00	RES, CHIP	220	5%	1/10W
R064	1-216-033-00	RES, CHIP	220	5%	1/10W
R065	1-216-033-00	RES, CHIP	220	5%	1/10W
R066	1-216-033-00	RES, CHIP	220	5%	1/10W
R067	1-216-041-00	RES, CHIP	470	5%	1/10W
R068	1-247-815-91	CARBON	220	5%	1/4W
R069		VARIANT(SEE VARIANT PARTS LIST)			
R070	1-249-421-11	CARBON	2.2K	5%	1/4W
R071	1-247-815-91	CARBON	220	5%	1/4W
R072	1-216-033-00	RES, CHIP	220	5%	1/10W
R073	1-216-033-00	RES, CHIP	220	5%	1/10W
R074	1-216-033-00	RES, CHIP	220	5%	1/10W
R075	1-216-033-00	RES, CHIP	220	5%	1/10W
R076	1-216-033-00	RES, CHIP	220	5%	1/10W
R077	1-216-033-00	RES, CHIP	220	5%	1/10W
R078	1-249-417-11	CARBON	1K	5%	1/4W
R079	1-216-033-00	RES, CHIP	220	5%	1/10W
R080	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R081	1-216-025-91	RES, CHIP	100	5%	1/10W
R082	1-216-025-91	RES, CHIP	100	5%	1/10W
R083	1-249-429-11	CARBON	10K	5%	1/4W
R084	1-216-049-91	RES, CHIP	1K	5%	1/10W
R085		VARIANT(SEE VARIANT PARTS LIST)			
R087	1-247-815-91	CARBON	220	5%	1/4W

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R088		VARIANT(SEE VARIANT PARTS LIST)			
R089	1-216-033-00	RES, CHIP	220	5%	1/10W
R090		VARIANT(SEE VARIANT PARTS LIST)			
R092	1-249-429-11	CARBON	10K	5%	1/4W
R093	1-249-387-11	CARBON	3.3	5%	1/4W
R094	1-249-381-11	CARBON	1	5%	1/4W
R096	1-216-347-11	METAL OXIDE	0.68	5%	1W
R097	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R099	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R101	1-249-381-11	CARBON	1	5%	1/4W
R131	1-216-035-00	RES, CHIP	270	5%	1/10W
R132	1-216-115-00	RES, CHIP	560K	5%	1/10W
R133	1-216-039-00	RES, CHIP	390	5%	1/10W
R135	1-216-073-00	RES, CHIP	10K	5%	1/10W
R136	1-216-073-00	RES, CHIP	10K	5%	1/10W
R137	1-216-049-91	RES, CHIP	1K	5%	1/10W
R353	1-208-788-11	RES, CHIP	1.8K	0.50%	1/10W
R354	1-216-077-00	RES, CHIP	15K	5%	1/10W
R355	1-216-033-00	RES, CHIP	220	5%	1/10W
R356	1-216-033-00	RES, CHIP	220	5%	1/10W
R358		VARIANT(SEE VARIANT PARTS LIST)			
R359		VARIANT(SEE VARIANT PARTS LIST)			
R360		VARIANT(SEE VARIANT PARTS LIST)			
R361	1-216-025-91	RES, CHIP	100	5%	1/10W
R362	1-216-025-91	RES, CHIP	100	5%	1/10W
R363	1-216-025-91	RES, CHIP	100	5%	1/10W
R364	1-216-101-00	RES, CHIP	150K	5%	1/10W
R365	1-216-101-00	RES, CHIP	150K	5%	1/10W
R366	1-216-089-91	RES, CHIP	47K	5%	1/10W
R367	1-216-097-91	RES, CHIP	100K	5%	1/10W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-216-097-91	RES, CHIP	100K	5%	1/10W
R370	1-249-417-11	CARBON	1K	5%	1/4W
R371	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R372	1-216-113-00	RES, CHIP	470K	5%	1/10W
R373	1-216-073-00	RES, CHIP	10K	5%	1/10W
R374	1-216-125-00	RES, CHIP	1.5M	5%	1/10W
R375	1-216-025-91	RES, CHIP	100	5%	1/10W
R376	1-216-073-00	RES, CHIP	10K	5%	1/10W
R379	1-216-033-00	RES, CHIP	220	5%	1/10W
R380	1-247-815-91	CARBON	220	5%	1/4W
R381	1-247-815-91	CARBON	220	5%	1/4W
R382	1-216-033-00	RES, CHIP	220	5%	1/10W
R383	1-216-049-91	RES, CHIP	1K	5%	1/10W
R384	1-216-109-00	RES, CHIP	330K	5%	1/10W
R385	1-249-422-11	CARBON	2.7K	5%	1/4W
R386		VARIANT(SEE VARIANT PARTS LIST)			
R387	1-216-049-91	RES, CHIP	1K	5%	1/10W
R388	1-216-089-91	RES, CHIP	47K	5%	1/10W
R389	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R390	1-216-035-00	RES, CHIP	270	5%	1/10W
R391	1-208-810-11	RES, CHIP	15K	0.50%	1/10W
R392	1-216-025-91	RES, CHIP	100	5%	1/10W
R393	1-216-043-91	RES, CHIP	560	5%	1/10W
R394	1-216-059-00	RES, CHIP	2.7K	5%	1/10W
R395	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R396	1-249-417-11	CARBON	1K	5%	1/4W
R397	1-249-425-11	CARBON	4.7K	5%	1/4W
R461		VARIANT(SEE VARIANT PARTS LIST)			
R462		VARIANT(SEE VARIANT PARTS LIST)			
R463		VARIANT(SEE VARIANT PARTS LIST)			
R464		VARIANT(SEE VARIANT PARTS LIST)			
R465		VARIANT(SEE VARIANT PARTS LIST)			
R466		VARIANT(SEE VARIANT PARTS LIST)			
R467		VARIANT(SEE VARIANT PARTS LIST)			
R469		VARIANT(SEE VARIANT PARTS LIST)			
R470		VARIANT(SEE VARIANT PARTS LIST)			
R471		VARIANT(SEE VARIANT PARTS LIST)			
R472		VARIANT(SEE VARIANT PARTS LIST)			
R473		VARIANT(SEE VARIANT PARTS LIST)			
R474		VARIANT(SEE VARIANT PARTS LIST)			
R475		VARIANT(SEE VARIANT PARTS LIST)			
R476		VARIANT(SEE VARIANT PARTS LIST)			
R477		VARIANT(SEE VARIANT PARTS LIST)			
R478		VARIANT(SEE VARIANT PARTS LIST)			
R479		VARIANT(SEE VARIANT PARTS LIST)			
R480		VARIANT(SEE VARIANT PARTS LIST)			
R481		VARIANT(SEE VARIANT PARTS LIST)			
R482		VARIANT(SEE VARIANT PARTS LIST)			
R483		VARIANT(SEE VARIANT PARTS LIST)			
R501	1-216-037-00	RES, CHIP	330	5%	1/10W
R502	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R503	1-249-426-11	CARBON	5.6K	5%	1/4W
R504 ⚠	1-215-915-11	METAL OXIDE	470	5%	3W
R505	1-249-431-11	CARBON	15K	5%	1/4W
R506	1-215-861-00	METAL OXIDE	47	5%	1W
R507	1-249-401-11	CARBON	47	5%	1/4W
R508	1-249-427-11	CARBON	6.8K	5%	1/4W
R509	1-247-750-11	CARBON	680	5%	1/2W
R510 ⚠	1-215-860-11	METAL OXIDE	33	5%	1W
R511		VARIANT(SEE VARIANT PARTS LIST)			
R512 ⚠	1-215-886-11	METAL OXIDE	100	5%	2W
R515		VARIANT(SEE VARIANT PARTS LIST)			
R516	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R517	1-249-415-11	CARBON	680	5%	1/4W
R518	1-216-073-00	RES, CHIP	10K	5%	1/10W
R519	1-249-411-11	CARBON	330	5%	1/4W
R521	1-215-915-11	METAL OXIDE	470	5%	3W

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R523		VARIANT(SEE VARIANT PARTS LIST)			
R524	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R528	1-216-081-00	RES, CHIP	22K	5%	1/10W
R529		VARIANT(SEE VARIANT PARTS LIST)			
⋈R530 ⚠	1-208-808-11	RES, CHIP	12K	0.50%	1/10W
R531		VARIANT(SEE VARIANT PARTS LIST)			
R532	1-208-760-11	RES, CHIP	120	0.50%	1/10W
R533		VARIANT(SEE VARIANT PARTS LIST)			
R535	1-216-101-00	RES, CHIP	150K	5%	1/10W
R536 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R537 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R538	1-247-887-00	CARBON	220K	5%	1/4W
R541		VARIANT(SEE VARIANT PARTS LIST)			
R542		VARIANT(SEE VARIANT PARTS LIST)			
R543	1-249-377-11	CARBON	0.47	5%	1/4W
R546		VARIANT(SEE VARIANT PARTS LIST)			
R547	1-215-457-00	METAL OXIDE	33K	1%	1/4W
R549	1-215-437-00	METAL OXIDE	4.7K	1%	1/4W
R550 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R551 ⚠	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R552	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R553 ⚠	1-249-377-11	CARBON	0.47	5%	1/4W
R554	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R561	1-216-073-00	RES, CHIP	10K	5%	1/10W
R563 ⚠	1-216-351-00	METAL OXIDE	1.5	5%	1W
R564	1-249-393-11	CARBON	10	5%	1/4W
R565 ⚠	1-215-890-11	METAL OXIDE	470	5%	2W
R566	1-216-073-00	RES, CHIP	10K	5%	1/10W
R567 ⚠	1-249-385-11	CARBON	2.2	5%	1/4W
R568	1-216-073-00	RES, CHIP	10K	5%	1/10W
R569	1-216-073-00	RES, CHIP	10K	5%	1/10W
R570	1-216-097-91	RES, CHIP	100K	5%	1/10W
R571	1-216-081-00	RES, CHIP	22K	5%	1/10W
R572	1-216-081-00	RES, CHIP	22K	5%	1/10W
R573	1-216-097-91	RES, CHIP	100K	5%	1/10W
R574 ⚠	1-216-365-00	METAL OXIDE	0.47	5%	2W
R575	1-216-113-00	RES, CHIP	470K	5%	1/10W
R576	1-216-073-00	RES, CHIP	10K	5%	1/10W
R577	1-216-097-91	RES, CHIP	100K	5%	1/10W
R578	1-208-784-11	RES, CHIP	1.2K	0.50%	1/10W
R579	1-208-842-11	RES, CHIP	330K	0.50%	1/10W
R580	1-249-441-11	CARBON	100K	5%	1/4W
R1101	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1102	1-215-900-11	METAL OXIDE	22K	5%	2W
R1103	1-216-051-00	RES, CHIP	1.2K	5%	1/10W
R1104	1-216-083-00	RES, CHIP	27K	5%	1/10W
R1105	1-216-689-11	RES, CHIP	39K	5%	1/10W
R1106	1-216-049-91	RES, CHIP	1K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1107	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1108	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1109	1-216-019-00	RES, CHIP	56	5%	1/10W
R1110	1-216-019-00	RES, CHIP	56	5%	1/10W
R1111	1-216-019-00	RES, CHIP	56	5%	1/10W
R1115	1-216-045-00	RES, CHIP	680	5%	1/10W
R1117	1-249-425-11	CARBON	4.7K	5%	1/4W
R1118	1-249-425-11	CARBON	4.7K	5%	1/4W
R1120	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1121	1-216-035-00	RES, CHIP	270	5%	1/10W
R1122	1-216-115-00	RES, CHIP	560K	5%	1/10W
R1123	1-216-039-00	RES, CHIP	390	5%	1/10W
R1125	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1126	1-216-035-00	RES, CHIP	270	5%	1/10W
R1127	1-216-115-00	RES, CHIP	560K	5%	1/10W
R1128	1-216-039-00	RES, CHIP	390	5%	1/10W
R1130	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R1351	1-247-815-91	CARBON	220	5%	1/4W
R1352	1-247-815-91	CARBON	220	5%	1/4W
R1353	1-247-815-91	CARBON	220	5%	1/4W
R1354	1-216-033-00	RES, CHIP	220	5%	1/10W
R1355	1-216-025-91	RES, CHIP	100	5%	1/10W
R1356	1-216-025-91	RES, CHIP	100	5%	1/10W
R1357	1-216-025-91	RES, CHIP	100	5%	1/10W
R1358	1-247-807-31	CARBON	100	5%	1/4W
R1359	1-216-025-91	RES, CHIP	100	5%	1/10W
R1360	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R1361	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1362	1-216-295-91	SHORT			

SWITCH

S501	1-572-707-11	SWITCH, LEVER

TRANSFORMER

T501	1-437-210-11	TRANSFORMER, HORIZONTAL DRIVE
T502		VARIANT(SEE VARIANT PARTS LIST)
T503		VARIANT(SEE VARIANT PARTS LIST)
T504		VARIANT(SEE VARIANT PARTS LIST)

TUNER

TU102 ⚠	8-598-431-00	TUNER, FSS BTF-WA411

CRYSTAL

X001	1-578-774-11	VIBRATOR, CRYSTAL
X353	1-567-505-11	OSCILLATOR, CRYSTAL
X354	1-577-611-11	OSCILLATOR, CERAMIC CHIP

A

S SERIES
BOARD VARIANT PARTS LIST

The parts on this page belong to the following model(s) only:

KV-32S40/34SL40/34SL40C

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

A BOARD VARIANT LIST: KV-32S40/34SL40/34SL40C

*** A-1298-630-A A BOARD, COMPLETE**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C068	1-164-096-11	CERAMIC CHIP	0.01MF		50V
C370	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C375	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C513 ⚠	1-130-895-00	FILM	0.056MF	5%	400V
C514 ⚠	1-104-844-11	FILM	0.62MF	5%	200V
C520	1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C521	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C537	1-126-941-11	ELECT	470MF	20%	25V
C539 ⚠	1-126-935-11	ELECT	470MF	20%	16V
C1501	1-115-462-11	FILM	0.12MF	5%	200V

DIODE

D005	8-719-991-33	DIODE 1SS133T-77	
D006	1-810-039-31	LED UNIT	

IC

IC003	8-742-014-11	HYB IC SBX1981-51	
IC1261	8-759-366-77	IC MM1311AD	

CHIP CONDUCTOR

JR351	1-216-295-91	SHORT	
JR352	1-216-295-91	SHORT	
JR1264	1-216-295-91	SHORT	

RESISTOR

R059	1-216-047-91	RES, CHIP	820	5%	1/10W
R060	1-216-049-91	RES, CHIP	1K	5%	1/10W
R061	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R062	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R063	1-216-073-00	RES, CHIP	10K	5%	1/10W
R365	1-216-101-00	RES, CHIP	150K	5%	1/10W
R374	1-216-125-00	RES, CHIP	1.5M	5%	1/10W
R469	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R472	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R511 ⚠	1-215-885-00	METAL	68	5%	2W
R515	1-216-083-00	RES, CHIP	27K	5%	1/10W
R523	1-216-073-00	RES, CHIP	10K	5%	1/10W
R529	1-208-814-11	RES, CHIP	22K	0.50%	1/10W
⧓ R531 ⚠	1-208-826-11	RES, CHIP	68K	0.50%	1/10W
R533 ⚠	1-215-902-11	METAL	47K	5%	1W
R535	1-216-101-00	RES, CHIP	150K	5%	1/10W
R546	1-215-453-00	METAL	22K	1%	1/4W
R1009	1-216-033-00	RES, CHIP	220	5%	1/10W
R1010	1-216-033-00	RES, CHIP	220	5%	1/10W

SWITCH

S001	1-692-431-21	SWITCH, TACTILE
S002	1-692-431-21	SWITCH, TACTILE
S003	1-692-431-21	SWITCH, TACTILE
S004	1-692-431-21	SWITCH, TACTILE
S005	1-692-431-21	SWITCH, TACTILE
S006	1-692-431-21	SWITCH, TACTILE
S007	1-692-431-21	SWITCH, TACTILE

TRANSFORMER

T502 ⚠	1-424-545-11	TRANSFORMER FERRITE (PMT)
T503 ⚠	1-453-207-11	FLYBACK TRANSFORMER ASSY, NX-2609//X4C

TUNER

TU102 ⚠	8-598-431-00	TUNER, FSS BTF-WA411

Note:

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Note:

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A

S SERIES
BOARD VARIANT PARTS LIST

The parts on this page belong to the following model(s) only:

KV-32S45/34SL45

A BOARD VARIANT LIST: KV-32S45/34SL45

*** A-1298-631-A A BOARD, COMPLETE**

CAPACITOR

REF.NO.		PART NO.	DESCRIPTION			REMARK
C370		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C513	⚠	1-130-895-00	FILM	0.056MF	5%	400V
C514	⚠	1-104-844-11	FILM	0.62MF	5%	200V
C520		1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C521		1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C537		1-126-941-11	ELECT	470MF	20%	25V
C539	⚠	1-126-935-11	ELECT	470MF	20%	16V
C1241		1-136-161-00	FILM	0.047MF	5%	50V
C1242		1-126-960-11	ELECT	1MF	20%	50V
C1243		1-126-960-11	ELECT	1MF	20%	50V
C1501		1-115-462-11	FILM	0.12MF	5%	200V

CONNECTOR

CN1001*		1-564-512-11	PLUG, CONNECTOR 9P
CN3001		1-573-298-11	CONNECTOR, BOARD TO BOARD

DIODE

D368		8-719-991-33	DIODE 1SS133T-77

IC

IC1261		8-759-534-81	IC MM1313AD

JACK

J1233		1-774-749-11	JACK BLOCK, PIN

RESISTOR

R012		1-216-033-00	RES, CHIP	220	5%	1/10W
R022		1-249-429-11	CARBON	10K	5%	1/4W
R031		1-247-815-91	CARBON	220	5%	1/4W
R358		1-247-815-91	CARBON	220	5%	1/4W
R359		1-247-815-91	CARBON	220	5%	1/4W
R360		1-247-815-91	CARBON	220	5%	1/4W
R365		1-216-101-00	RES, CHIP	150K	5%	1/10W
R374		1-216-125-00	RES, CHIP	1.5M	5%	1/10W
R386		1-216-049-91	RES, CHIP	1K	5%	1/10W
R469		1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R472		1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R511	⚠	1-215-885-00	METAL	68	5%	2W
R515		1-216-083-00	RES, CHIP	27K	5%	1/10W
R523		1-216-073-00	RES, CHIP	10K	5%	1/10W
R529		1-208-814-11	RES, CHIP	22K	0.50%	1/10W
⋈ R531	⚠	1-208-826-11	RES, CHIP	68K	0.50%	1/10W
R533	⚠	1-215-902-11	METAL	47K	5%	1W
R535		1-216-101-00	RES, CHIP	150K	5%	1/10W
R546		1-215-453-00	METAL	22K	1%	1/4W
R1249		1-216-022-00	RES, CHIP	75	5%	1/10W
R1250		1-216-113-00	RES, CHIP	470K	5%	1/10W
R1251		1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1252		1-216-113-00	RES, CHIP	470K	5%	1/10W
R1253		1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1273		1-216-033-00	RES, CHIP	220	5%	1/10W
R1274		1-216-025-91	RES, CHIP	100	5%	1/10W
R1283		1-247-791-91	CARBON	22	5%	1/4W
R1297		1-216-025-91	RES, CHIP	100	5%	1/10W

TRANSFORMER

T502	⚠	1-424-545-11	TRANSFORMER FERRITE (PMT)
T503	⚠	1-453-207-11	FLYBACK TRANSFORMER ASSY, NX-2609//X4C

TUNER

TU102	⚠	8-598-431-00	TUNER, FSS BTF-WA411

A

S SERIES
BOARD VARIANT PARTS LIST

The parts on this page belong to the following model(s) only:

KV-35S40

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION			REMARK
A BOARD VARIANT LIST: KV-35S40					
*	**A-1298-645-A**	**A BOARD COMPLETE**			
	CAPACITOR				
C069	1-126-964-11	ELECT	10MF	20%	50V
C370	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C375	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C513 ⚠	1-129-720-00	FILM	0.033MF	5%	630V
C514 ⚠	1-136-540-11	FILM	0.82MF	5%	200V
C520	1-101-821-00	CERAMIC CHIP	0.0022MF		500V
C521	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C537	1-126-942-61	ELECT	1000MF	20%	25V
C539 ⚠	1-126-942-61	ELECT	1000MF	20%	25V
C542	1-106-383-00	MYLAR	0.047MF	10%	200V
C1241	1-136-161-00	FILM	0.047MF	5%	50V
C1242	1-126-960-11	ELECT	1MF	20%	50V
C1243	1-126-960-11	ELECT	1MF	20%	50V
	CONNECTOR				
CN1001*	1-564-512-11	PLUG, CONNECTOR 9P			
	IC				
IC1261	8-759-366-77	IC MM1311AD			
	JACK				
J1233	1-774-749-11	JACK BLOCK, PIN			
	CHIP CONDUCTOR				
JR351	1-216-295-91	SHORT			
JR352	1-216-295-91	SHORT			
JR1264	1-216-295-91	SHORT			
	COIL				
L541	1-406-677-11	INDUCTOR			
	RESISTOR				
R022	1-249-429-11	CARBON	10K	5%	1/4W
R069	1-216-073-00	RES, CHIP	10K	5%	1/10W
R085	1-216-073-00	RES, CHIP	10K	5%	1/10W
R365	1-216-097-91	RES, CHIP	100K	5%	1/10W
R374	1-216-121-91	RES, CHIP	1M	5%	1/10W
R469	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R472	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R511 ⚠	1-215-886-11	METAL	100	5%	2W
R515	1-216-077-00	RES, CHIP	15K	5%	1/10W
R523	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R529	1-208-812-11	RES, CHIP	18K	0.50%	1/10W
⋈ R531 ⚠	1-208-838-11	RES, CHIP	220K	0.50%	1/10W
R533 ⚠	1-215-878-00	METAL	33K	5%	1W
R535	1-216-103-00	RES, CHIP	180K	5%	1/10W
R541	1-249-377-11	CARBON	0.47	5%	1/4W
R542	1-249-397-11	CARBON	22	5%	1/4W
R546	1-215-451-00	METAL	18K	1%	1/4W
R1249	1-216-022-00	RES, CHIP	75	5%	1/10W
R1250	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1251	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1252	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1253	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1273	1-216-033-00	RES, CHIP	220	5%	1/10W
R1274	1-216-025-91	RES, CHIP	100	5%	1/10W
R1283	1-247-791-91	CARBON	22	5%	1/4W
R1296	1-216-025-91	RES, CHIP	100	5%	1/10W
	TRANSFORMER				
T502 ⚠	1-429-408-11	TRANSFORMER FERRITE (PMT)			
T503 ⚠	X-4034-797-1	FLYBACK TRANSFORMER ASSY, NX-3005//J1C			
T504	1-413-059-00	TRANSFORMER FERRITE (DFT)			
	TUNER				
TU102 ⚠	8-598-431-00	TUNER, FSS BTF-WA411			

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The parts on this page belong to the following model(s) only:

KV-35S45/37SL45

A BOARD VARIANT LIST: KV-35S45/37SL45

*** A-1298-646-A A BOARD, COMPLETE**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C069	1-126-964-11	ELECT	10MF	20%	50V
C370	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C513 ⚠	1-129-720-00	FILM	0.033MF	5%	630V
C514 ⚠	1-136-540-11	FILM	0.82MF	5%	200V
C520	1-101-821-00	CERAMIC CHIP	0.0022MF		500V
C521	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C537	1-126-942-61	ELECT	1000MF	20%	25V
C539 ⚠	1-126-942-61	ELECT	1000MF	20%	25V
C542	1-106-383-00	MYLAR	0.047MF	10%	200V
C1241	1-136-161-00	FILM	0.047MF	5%	50V
C1242	1-126-960-11	ELECT	1MF	20%	50V
C1243	1-126-960-11	ELECT	1MF	20%	50V

CONNECTOR

CN1001*	1-564-512-11	PLUG, CONNECTOR 9P
CN3001	1-573-298-11	CONNECTOR, BOARD TO BOARD

DIODE

D368	8-719-991-33	DIODE 1SS133T-77

IC

IC1261	8-759-534-81	IC MM1313AD

JACK

J1233	1-774-749-11	JACK BLOCK, PIN

COIL

L541	1-406-677-11	INDUCTOR

RESISTOR

R012	1-216-033-00	RES, CHIP	220	5%	1/10W
R022	1-249-429-11	CARBON	10K	5%	1/4W
R031	1-247-815-91	CARBON	220	5%	1/4W
R069	1-216-073-00	RES, CHIP	10K	5%	1/10W
R085	1-216-073-00	RES, CHIP	10K	5%	1/10W
R358	1-247-815-91	CARBON	220	5%	1/4W
R359	1-247-815-91	CARBON	220	5%	1/4W
R360	1-247-815-91	CARBON	220	5%	1/4W
R365	1-216-097-91	RES, CHIP	100K	5%	1/10W
R374	1-216-121-91	RES, CHIP	1M	5%	1/10W
R386	1-216-049-91	RES, CHIP	1K	5%	1/10W
R469	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R472	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R511 ⚠	1-215-886-11	METAL	100	5%	2W
R515	1-216-077-00	RES, CHIP	15K	5%	1/10W
R523	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R529	1-208-812-11	RES, CHIP	18K	0.50%	1/10W
⧓ R531 ⚠	1-208-838-11	RES, CHIP	220K	0.50%	1/10W
R533 ⚠	1-215-878-00	METAL	33K	5%	1W
R535	1-216-103-00	RES, CHIP	180K	5%	1/10W
R541	1-249-377-11	CARBON	0.47	5%	1/4W
R542	1-249-397-11	CARBON	22	5%	1/4W
R546	1-215-451-00	METAL	18K	1%	1/4W
R1249	1-216-022-00	RES, CHIP	75	5%	1/10W
R1250	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1251	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1252	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1253	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1273	1-216-033-00	RES, CHIP	220	5%	1/10W
R1274	1-216-025-91	RES, CHIP	100	5%	1/10W
R1283	1-247-791-91	CARBON	22	5%	1/4W
R1297	1-216-025-91	RES, CHIP	100	5%	1/10W

TRANSFORMER

T502 ⚠	1-429-408-11	TRANSFORMER FERRITE (PMT)
T503 ⚠	X-4034-797-1	FLYBACK TRANSFORMER ASSY, NX-3005//J1C
T504	1-413-059-00	TRANSFORMER FERRITE (DFT)

TUNER

TU102 ⚠	8-598-431-00	TUNER, FSS 2BTF-WA411

A

S SERIES
BOARD VARIANT PARTS LIST

The parts on this page belong to the following model(s) only:

KV-34SL40T

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

A BOARD VARIANT LIST: KV-34SL40T

*** A-1298-661-A A BOARD, COMPLETE**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C068	1-164-096-11	CERAMIC CHIP	0.01MF		50V
C370	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C375	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C513 ⚠	1-130-895-00	FILM	0.056MF	5%	400V
C514 ⚠	1-104-844-11	FILM	0.62MF	5%	200V
C520	1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C521	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C537	1-126-941-11	ELECT	470MF	20%	25V
C539 ⚠	1-126-935-11	ELECT	470MF	20%	16V
C1501	1-115-462-11	FILM	0.12MF	5%	200V

DIODE

D005	8-719-991-33	DIODE 1SS133T-77	
D006	1-810-039-31	LED UNIT	

IC

IC003	8-742-014-11	HYB IC SBX1981-51	
IC1261	8-759-366-77	IC MM1311AD	

CHIP CONDUCTOR

JR351	1-216-295-91	SHORT	
JR352	1-216-295-91	SHORT	
JR1264	1-216-295-91	SHORT	

RESISTOR

R059	1-216-047-91	RES, CHIP	820	5%	1/10W
R060	1-216-049-91	RES, CHIP	1K	5%	1/10W
R061	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R062	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R063	1-216-073-00	RES, CHIP	10K	5%	1/10W
R365	1-216-101-00	RES, CHIP	150K	5%	1/10W
R374	1-216-125-00	RES, CHIP	1.5M	5%	1/10W
R469	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R472	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R511 ⚠	1-215-885-00	METAL	68	5%	2W
R515	1-216-083-00	RES, CHIP	27K	5%	1/10W
R523	1-216-073-00	RES, CHIP	10K	5%	1/10W
R529	1-208-814-11	RES, CHIP	22K	0.50%	1/10W
⋈ R531 ⚠	1-208-826-11	RES, CHIP	68K	0.50%	1/10W
R533 ⚠	1-215-902-11	METAL	47K	5%	1W
R535	1-216-101-00	RES, CHIP	150K	5%	1/10W
R546	1-215-453-00	METAL	22K	1%	1/4W
R1009	1-216-033-00	RES, CHIP	220	5%	1/10W
R1010	1-216-033-00	RES, CHIP	220	5%	1/10W

SWITCH

S001	1-692-431-21	SWITCH, TACTILE
S002	1-692-431-21	SWITCH, TACTILE
S003	1-692-431-21	SWITCH, TACTILE
S004	1-692-431-21	SWITCH, TACTILE
S005	1-692-431-21	SWITCH, TACTILE
S006	1-692-431-21	SWITCH, TACTILE
S007	1-692-431-21	SWITCH, TACTILE

TRANSFORMER

T502 ⚠	1-424-545-11	TRANSFORMER, FERRITE (PMT)
T503 ⚠	1-453-207-11	FLYBACK TRANSFORMER ASSY, NX-2609//X4C

TUNER

TU102 ⚠	8-598-477-00	FSS TUNER BTF-WG411

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The parts on this page belong to the following model(s) only:

KV-32V40

A BOARD VARIANT LIST: KV-32V40

*** A-1298-611-A A BOARD, COMPLETE**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			
C461	1-126-964-11	ELECT	10MF	20%	50V
C462	1-126-961-11	ELECT	2.2MF	20%	50V
C463	1-126-961-11	ELECT	2.2MF	20%	50V
C464	1-163-017-00	CERAMIC	0.0047MF	10%	50V
C466	1-104-666-11	ELECT	220MF	20%	25V
C467	1-163-017-00	CERAMIC	0.0047MF	10%	50V
C468	1-104-664-11	ELECT	47MF	20%	25V
C470	1-126-961-11	ELECT	2.2MF	20%	50V
C471	1-104-666-11	ELECT	220MF	20%	25V
C472	1-136-173-00	FILM	0.47MF	5%	50V
C473	1-136-169-00	FILM	0.22MF	5%	50V
C474	1-126-942-61	ELECT	1000MF	20%	25V
C475	1-136-169-00	FILM	0.22MF	5%	50V
C476	1-126-942-61	ELECT	1000MF	20%	25V
C477	1-126-942-61	ELECT	1000MF	20%	25V
C513 ⚠	1-130-895-00	FILM	0.056MF	5%	400V
C514 ⚠	1-104-844-11	FILM	0.62MF	5%	200V
C520	1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C521	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C537	1-126-941-11	ELECT	470MF	20%	25V
C539 ⚠	1-126-935-11	ELECT	470MF	20%	16V
C1501	1-115-462-11	FILM	0.12MF	5%	200V

CONNECTOR

CN461	1-564-507-11	PLUG, CONNECTOR 4P

IC

IC461	8-759-980-43	IC TDA2009A

CHIP CONDUCTOR

JR351	1-216-295-91	SHORT
JR352	1-216-295-91	SHORT
JR1417	1-216-295-91	SHORT

COIL

L461	1-410-472-41	INDUCTOR 15UH

IC LINK

PS461⚠	1-532-984-11	LINK, IC 2A/90V

TRANSISTOR

Q461	8-729-422-27	TRANSISTOR 2SD601A-Q
Q462	8-729-216-22	TRANSISTOR 2SA1162-G
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q

RESISTOR

R461	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R462	1-216-089-91	RES, CHIP	47K	5%	1/10W
R463	1-249-435-11	CARBON	33K	5%	1/4W
R464	1-216-097-91	RES, CHIP	100K	5%	1/10W
R465	1-249-413-11	CARBON	470	5%	1/4W
R466	1-249-385-11	CARBON	2.2	5%	1/4W
R467	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R469	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R470	1-216-077-00	RES, CHIP	15K	5%	1/10W
R471	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R472	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R473	1-249-398-11	CARBON	27	5%	1/4W
R474	1-216-077-00	RES, CHIP	15K	5%	1/10W
R475	1-249-430-11	CARBON	12K	5%	1/4W
R476	1-249-430-11	CARBON	12K	5%	1/4W
R477	1-249-398-11	CARBON	27	5%	1/4W
R478	1-249-418-11	CARBON	1.2K	5%	1/4W
R479	1-249-418-11	CARBON	1.2K	5%	1/4W
R480	1-249-385-11	CARBON	2.2	5%	1/4W
R481	1-249-385-11	CARBON	2.2	5%	1/4W
R482	1-249-421-11	CARBON	2.2K	5%	1/4W
R483	1-249-421-11	CARBON	2.2K	5%	1/4W
R511 ⚠	1-215-885-00	METAL	68	5%	2W
R515	1-216-083-00	RES, CHIP	27K	5%	1/10W
R523	1-216-073-00	RES, CHIP	10K	5%	1/10W
R529	1-208-814-11	RES, CHIP	22K	0.50%	1/10W
⋈R531 ⚠	1-208-826-11	RES, CHIP	68K	0.50%	1/10W
R533 ⚠	1-215-902-11	METAL	47K	5%	1W
R546	1-215-453-00	METAL	22K	1%	1/4W

TRANSFORMER

T502 ⚠	1-424-545-11	TRANSFORMER FERRITE (PMT)
T503 ⚠	1-453-207-11	FLYBACK TRANSFORMER ASSY, NX-2609//X4C

A

V SERIES
BOARD VARIANT PARTS LIST

The parts on this page belong to the following model(s) only:

KV-34VL65C/34VL65/32V65CND

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

A BOARD VARIANT LIST: KV-34VL65C/34VL65/32V65CND

*** A-1298-613-A A BOARD COMPLETE**

REF.NO.	PART NO.	DESCRIPTION			REMARK
		CAPACITOR			
C461	1-126-966-11	ELECT	33MF	20%	16V
C478	1-126-934-11	ELECT	220MF	20%	16V
C513 ⚠	1-130-895-00	FILM	0.056MF	5%	400V
C514 ⚠	1-104-844-11	FILM	0.62MF	5%	200V
C520	1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C521	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C537	1-126-941-11	ELECT	470MF	20%	25V
C539 ⚠	1-126-935-11	ELECT	470MF	20%	16V
C1501	1-115-462-11	FILM	0.12MF	5%	200V
		CONNECTOR			
CN461	1-564-508-11	PLUG, CONNECTOR 5P			
CN1101	1-573-298-11	CONNECTOR, BOARD TO BOARD			
CN3001	1-573-298-11	CONNECTOR, BOARD TO BOARD			
		DIODE			
D368	8-719-991-33	DIODE 1SS133T-77			
		CHIP CONDUCTOR			
JR001	1-216-295-91	SHORT			
JR201	1-216-295-91	SHORT			
JR202	1-216-295-91	SHORT			
JR463	1-216-295-91	SHORT			
		COIL			
L461	1-408-612-31	INDUCTOR 56UH			
		TRANSISTOR			
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q			
		RESISTOR			
R006	1-247-815-91	CARBON	220	5%	1/4W
R008	1-247-815-91	CARBON	220	5%	1/4W
R012	1-216-033-00	RES,CHIP	220	5%	1/10W
R031	1-247-815-91	CARBON	220	5%	1/4W
R040	1-247-815-91	CARBON	220	5%	1/4W
R041	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R042	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R045	1-247-815-91	CARBON	220	5%	1/4W
R088	1-216-033-00	RES,CHIP	220	5%	1/10W
R090	1-216-033-00	RES,CHIP	220	5%	1/10W
R358	1-247-815-91	CARBON	220	5%	1/4W
R359	1-247-815-91	CARBON	220	5%	1/4W
R360	1-247-815-91	CARBON	220	5%	1/4W
R386	1-216-049-91	RES,CHIP	1K	5%	1/10W
R466	1-249-382-11	CARBON	1.2	5%	1/4W
R511 ⚠	1-215-885-00	METAL	68	5%	2W
R515	1-216-083-00	RES, CHIP	27K	5%	1/10W
R523	1-216-073-00	RES,CHIP	10K	5%	1/10W
R529	1-208-814-11	RES,CHIP	22K	0.50%	1/10W
⋈ R531 ⚠	1-208-826-11	RES,CHIP	68K	0.50%	1/10W
R533 ⚠	1-215-902-11	METAL	47K	5%	1W
R546	1-215-453-00	METAL	22K	1%	1/4W
		TRANSFORMER			
T502 ⚠	1-424-545-11	TRANSFORMER FERRITE (PMT)			
T503 ⚠	1-453-207-11	FLYBACK TRANSFORMER ASSY, NX-2609//X4C			

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

A V SERIES BOARD VARIANT PARTS LIST

The parts on this page belong to the following model(s) only:

KV-35V65CND/37VL65/37VL65C

A BOARD VARIANT LIST: KV-35V65CND/37VL65/37VL65C

*** A-1298-647-A A BOARD, COMPLETE**

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C069	1-126-964-11	ELECT	10MF	20%	50V
C461	1-126-964-11	ELECT	10MF	20%	50V
C478	1-126-934-11	ELECT	220MF	20%	16V
C479	1-126-964-11	ELECT	10MF	20%	50V
C513 ⚠	1-129-720-00	FILM	0.033MF	5%	630V
C514 ⚠	1-136-540-11	FILM	0.82MF	5%	200V
C520	1-101-821-00	CERAMIC CHIP	0.0022MF		500V
C521	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C537	1-126-942-61	ELECT	1000MF	20%	25V
C539 ⚠	1-126-942-61	ELECT	1000MF	20%	25V
C542	1-106-383-00	MYLAR	0.047MF	10%	200V

CONNECTOR

CN461	1-564-508-11	PLUG, CONNECTOR 5P
CN1101	1-573-298-11	CONNECTOR, BOARD TO BOARD
CN3001	1-573-298-11	CONNECTOR, BOARD TO BOARD

DIODE

D368	8-719-991-33	DIODE 1SS133T-77

CHIP CONDUCTOR

JR001	1-216-295-91	SHORT
JR201	1-216-295-91	SHORT
JR202	1-216-295-91	SHORT
JR463	1-216-295-91	SHORT

COIL

L461	1-408-617-31	INDUCTOR 180UH
L541	1-406-677-11	INDUCTOR

TRANSISTOR

Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R006	1-247-815-91	CARBON	220	5%	1/4W
R008	1-247-815-91	CARBON	220	5%	1/4W
R012	1-216-033-00	RES,CHIP	220	5%	1/10W
R031	1-247-815-91	CARBON	220	5%	1/4W
R040	1-247-815-91	CARBON	220	5%	1/4W
R041	1-216-065-91	"RES,CHIP"	4.7K	5%	1/10W
R042	1-216-065-91	"RES,CHIP"	4.7K	5%	1/10W
R045	1-247-815-91	CARBON	220	5%	1/4W
R069	1-216-073-00	RES,CHIP	10K	5%	1/10W
R085	1-216-073-00	RES,CHIP	10K	5%	1/10W
R088	1-216-033-00	RES,CHIP	220	5%	1/10W
R090	1-216-033-00	RES,CHIP	220	5%	1/10W
R358	1-247-815-91	CARBON	220	5%	1/4W
R359	1-247-815-91	CARBON	220	5%	1/4W
R360	1-247-815-91	CARBON	220	5%	1/4W
R386	1-216-049-91	RES,CHIP	1K	5%	1/10W
R511 ⚠	1-215-886-11	METAL	100	5%	2W
R515	1-216-077-00	RES, CHIP	15K	5%	1/10W
R523	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R529	1-208-812-11	RES,CHIP	18K	0.50%	1/10W
⋈R531 ⚠	1-208-838-11	RES,CHIP	220K	0.50%	1/10W
R533 ⚠	1-215-878-00	METAL	33K	5%	1W
R541	1-249-377-11	CARBON	0.47	5%	1/4W
R542	1-249-397-11	CARBON	22	5%	1/4W
R546	1-215-451-00	METAL	18K	1%	1/4W

TRANSFORMER

T502 ⚠	1-429-408-11	TRANSFORMER FERRITE (PMT)
T503 ⚠	X-4034-797-1	FLYBACK TRANSFORMER ASSY, NX-3005//J1C
T504	1-413-059-00	TRANSFORMER FERRITE (DFT)

AV COMPLETE PARTS LISTING

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

AV

*** A-1298-612-A AV BOARD, COMPLETE**
(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C101	1-126-960-11	ELECT	1MF	20%	50V
C102	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C104	1-126-964-11	ELECT	10MF	20%	50V
C106	1-104-664-11	ELECT	47MF	20%	25V
C108	1-126-933-11	ELECT	100MF	20%	16V
C109	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C110	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C111	1-126-960-11	ELECT	1MF	20%	50V
C113	1-126-934-11	ELECT	220MF	20%	16V
C1904	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1905	1-126-964-11	ELECT	10MF	20%	50V
C1906	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1907	1-126-964-11	ELECT	10MF	20%	50V
C1908	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1909	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V

CONNECTOR

CN101	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN102	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN103 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN106 *	1-564-506-11	PLUG, CONNECTOR 3P	

DIODE

D101	8-719-109-89	DIODE RD5.6ESB2
D103	8-719-991-33	DIODE 1SS133T-77
D104	8-719-991-33	DIODE 1SS133T-77
D105	8-719-991-33	DIODE 1SS133T-77
D106	8-719-991-33	DIODE 1SS133T-77

IC

IC1901	8-752-058-68	IC CXA1315M
IC1902	8-759-470-63	IC NJM2145M-TE2

CHIP CONDUCTOR

JR101	1-216-295-91	SHORT
JR102	1-216-295-91	SHORT
JR103	1-216-295-91	SHORT
JR105	1-216-295-91	SHORT

COIL

L102	1-410-470-11	INDUCTOR	10UH
L105	1-408-421-00	INDUCTOR	100UH

TRANSISTOR

Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q103	8-729-216-22	TRANSISTOR 2SA1162-G
Q104	8-729-216-22	TRANSISTOR 2SA1162-G
Q105	8-729-216-22	TRANSISTOR 2SA1162-G
Q1901	8-729-216-22	TRANSISTOR 2SA1162-G
Q1902	8-729-216-22	TRANSISTOR 2SA1162-G

RESISTOR

R101	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R102	1-216-083-00	RES, CHIP	27K	5%	1/10W
R103	1-216-689-11	RES, CHIP	39K	5%	1/10W
R104	1-216-045-00	RES, CHIP	680	5%	1/10W
R106	1-216-081-00	RES, CHIP	22K	5%	1/10W
R107	1-216-081-00	RES, CHIP	22K	5%	1/10W
R108	1-216-081-00	RES, CHIP	22K	5%	1/10W
R109	1-216-081-00	RES, CHIP	22K	5%	1/10W
R112	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R113	1-216-097-91	RES, CHIP	100K	5%	1/10W
R114	1-216-121-91	RES, CHIP	1M	5%	1/10W
R115	1-216-073-00	RES, CHIP	10K	5%	1/10W
R116	1-216-073-00	RES, CHIP	10K	5%	1/10W
R117	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R118	1-216-295-91	SHORT			
R121	1-216-049-91	RES, CHIP	1K	5%	1/10W
R1904	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1905	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2904	1-216-033-00	RES, CHIP	220	5%	1/10W
R2905	1-216-033-00	RES, CHIP	220	5%	1/10W
R2909	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2910	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2912	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2913	1-216-073-00	RES, CHIP	10K	5%	1/10W
R2914	1-216-073-00	RES, CHIP	10K	5%	1/10W

TUNER

TU101 ⚠	8-598-430-00	TUNER, FSS	BTF-FA401

B

*** A-1135-948-A B BOARD, COMPLETE**
(KV-32V40 only)
*** A-1135-949-A B BOARD, COMPLETE**
(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
*** A-1135-950-A B BOARD, COMPLETE**
(KV-32S40/34SL40/34SL40C/32S45/34SL45/35S40/35S45/37SL45/34SL40T only)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3501	1-104-664-11	ELECT	47MF	20%	25V
C3502	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3503	1-163-021-91	CERAMIC	0.01MF	10%	50V
C3504	1-126-964-11	ELECT	10MF	20%	50V
C3505	1-163-131-00	CERAMIC	390PF	5%	50V
C3506	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3507	1-126-963-11	ELECT	4.7MF	20%	50V
C3508	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3509	1-126-961-11	ELECT	2.2MF	20%	50V
C3510	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C3511	1-126-964-11	ELECT	10MF	20%	50V
C3512	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3513	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C3514	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C3515	1-126-963-11	ELECT	4.7MF	20%	50V
C3516	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C3517	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3518	1-126-941-11	ELECT	470MF	20%	25V
C3519	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3520	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3521	1-104-664-11	ELECT	47MF	20%	25V
C3522	1-126-964-11	ELECT	10MF	20%	50V
C3523	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3524	1-104-664-11	ELECT	47MF	20%	25V
C3525	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3526	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3527	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3528	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C3529	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3530	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3532	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3533	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3534	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3535	1-104-664-11	ELECT	47MF	20%	25V
C3536	1-126-964-11	ELECT	10MF	20%	50V
C3537	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3538	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3539	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3540	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3541	1-104-664-11	ELECT	47MF	20%	25V
C3542	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3543	1-104-664-11	ELECT	47MF	20%	25V
C3544	1-104-664-11	ELECT	47MF	20%	25V
C3545	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3548	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3549	1-126-964-11	ELECT	10MF	20%	50V
C3550	1-104-664-11	ELECT	47MF	20%	25V
C3551	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3553	1-126-941-11	ELECT	470MF	20%	25V
C3556	1-128-551-11	ELECT	22MF	20%	25V
C3557	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

CONNECTOR

CN3502 *	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P
(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)		
CN3561 *	1-691-616-21	CONNECTOR, BOARD TO BOARD 15P
(KV-32V40/34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)		
CN3570 *	1-764-816-11	CONNECTOR, BOARD TO BOARD 20P
(KV-32S40/34SL40/34SL40C/32S45/34SL45/35S40/35S45/37SL45/34SL40T only)		

FILTER

FL3501	1-239-847-11	FILTER, LOW PASS
FL3502	1-239-847-11	FILTER, LOW PASS
FL3503	1-239-847-11	FILTER, LOW PASS

IC

IC3501	8-759-065-82	IC MM1093ND
IC3502	8-752-385-80	IC CXD2073S
IC3503	8-759-231-53	IC TA7805S

COIL

L3501	1-410-470-11	INDUCTOR 10UH
L3502	1-410-466-41	INDUCTOR 4.7UH
L3503	1-410-470-11	INDUCTOR 10UH
L3504	1-410-470-11	INDUCTOR 10UH
L3505	1-410-470-11	INDUCTOR 10UH

REF.NO.	PART NO.	DESCRIPTION			REMARK
	TRANSISTOR				
Q3501	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3502	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3503	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3504	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3505	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3506	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3507	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3509	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3510	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q3516	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3555	8-729-216-22	TRANSISTOR 2SA1162-G			
	RESISTOR				
R3501	1-216-091-00	RES, CHIP	56K	5%	1/10W
R3502	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3503	1-216-009-00	RES, CHIP	22	5%	1/10W
R3504	1-216-029-00	RES, CHIP	150	5%	1/10W
R3505	1-216-037-00	RES, CHIP	330	5%	1/10W
R3506	1-216-035-00	RES, CHIP	270	5%	1/10W
R3507	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3508	1-216-043-91	RES, CHIP	560	5%	1/10W
R3509	1-216-075-00	RES, CHIP	12K	5%	1/10W
R3510	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3511	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R3512	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R3513	1-216-041-00	RES, CHIP	470	5%	1/10W
R3514	1-216-121-91	RES, CHIP	1M	5%	1/10W
R3515	1-216-077-00	RES, CHIP	15K	5%	1/10W
R3516	1-216-037-00	RES, CHIP	330	5%	1/10W
R3517	1-216-077-00	RES, CHIP	15K	5%	1/10W
R3518	1-216-067-00	RES, CHIP	5.6K	5%	1/10W
R3520	1-208-766-11	RES, CHIP	220	0.50%	1/10W
R3521	1-208-766-11	RES, CHIP	220	0.50%	1/10W
R3522	1-208-774-11	RES, CHIP	470	0.50%	1/10W
R3523	1-208-778-11	RES, CHIP	680	0.50%	1/10W
R3524	1-208-794-11	RES, CHIP	3.3K	0.50%	1/10W
R3526	1-208-776-11	RES, CHIP	560	0.50%	1/10W
R3527	1-208-824-11	RES, CHIP	56K	0.50%	1/10W
R3529	1-216-295-91	SHORT			
R3531	1-216-295-91	SHORT			
R3534	1-216-295-91	SHORT			
R3535	1-216-295-91	SHORT			
R3536	1-216-057-00	RES, CHIP	2.2K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3537	1-216-043-91	RES, CHIP	560	5%	1/10W
R3538	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R3539	1-216-089-91	RES, CHIP	47K	5%	1/10W
R3540	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3541	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3542	1-216-041-00	RES, CHIP	470	5%	1/10W
R3543	1-216-035-00	RES, CHIP	270	5%	1/10W
R3544	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3545	1-216-043-91	RES, CHIP	560	5%	1/10W
R3546	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R3547	1-216-089-91	RES, CHIP	47K	5%	1/10W
R3548	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3549	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3550	1-208-774-11	RES, CHIP	470	0.50%	1/10W
R3551	1-208-764-11	RES, CHIP	180	0.50%	1/10W
R3565	1-216-295-91	SHORT			
R3566	1-216-025-91	RES, CHIP	100	5%	1/10W
R3568	1-216-025-91	RES, CHIP	100	5%	1/10W
R3569	1-216-041-00	RES, CHIP	470	5%	1/10W
R3578	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3579	1-216-081-00	RES, CHIP	22K	5%	1/10W
R3580	1-216-295-91	SHORT			
R3596	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3597	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3599	1-208-774-11	RES, CHIP	470	0.50%	1/10W
	CRYSTAL				
X3501	1-567-505-11	OSCILLATOR, CRYSTAL			

Note:

The components identified with shading and a critical symbol (⚠) are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque ⚠ sont critiques pout la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C					
	*** A-1331-837-A C BOARD, COMPLETE** (KV-32V40/34VL65C/32V65CND/34VL65/32S40/34SL40/ 34SL40C/32S45/34SL45/34SL40T only)				
	*** A-1331-843-A C BOARD, COMPLETE** (KV-35V65CND/37VL65/37VL65C/35S40/35S45/37SL45 only)				
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	CAPACITOR				
C1750	1-137-528-11	FILM	0.1MF	10%	250V
C1751	1-107-652-11	ELECT	10MF	20%	250V
C1790	1-102-129-00	CERAMIC CHIP	0.01MF	10%	50V
C1791	1-126-968-11	ELECT	100MF	20%	50V
C1792	1-102-108-00	CERAMIC CHIP	150PF	10&	50V
C1794	1-107-651-11	ELECT	4.7MF	20%	250V
	(KV-35V65CND/37VL65/37VL65C/35S40/35S45/37SL45 only)				
C1795	1-102-074-00	CERAMIC CHIP	0.001MF	10%	50V
C1799	1-162-114-00	CERAMIC CHIP	0.0047MF		2KV
	CONNECTOR				
CN1761*	1-564-509-11	PLUG, CONNECTOR 6P			
CN1764*	1-564-508-11	PLUG, CONNECTOR 5P			
CN1765	1-695-915-11	TAB (CONTACT)			
	DIODE				
D1790	8-719-991-33	DIODE 1SS133T-77			
D1791	8-719-908-03	DIODE GP08D			
D1792	8-719-908-03	DIODE GP08D			
	(KV-35V65CND/37VL65/37VL65C/35S40/35S45/37SL45 only)				
D1793	8-719-908-03	DIODE GP08D			
D1794	8-719-908-03	DIODE GP08D			
D1795	8-719-908-03	DIODE GP08D			
	IC				
IC1701	8-759-535-08	IC TDA6108Q			
	JACK				
J1761 ⚠	1-251-388-11	SOCKET, CRT			
	COIL				
L1790	1-410-671-31	INDUCTOR 47UH			

REF.NO.	PART NO.	DESCRIPTION			REMARK
	TRANSISTOR				
Q1790	8-729-119-76	TRANSISTOR	2SA1175-HFE		
	RESISTOR				
R1750	1-247-870-11	CARBON	43K	5%	1/4W
R1763	1-260-099-11	CARBON	1K	5%	1/2W
R1764	1-247-807-31	CARBON	100	5%	1/4W
R1773	1-260-099-11	CARBON	1K	5%	1/2W
R1774	1-247-807-31	CARBON	100	5%	1/4W
R1783	1-260-099-11	CARBON	1K	5%	1/2W
R1784	1-247-807-31	CARBON	100	5%	1/4W
R1788	1-216-349-00	METAL OXIDE	1	5%	1W F
R1789	1-249-437-11	CARBON	47K	5%	1/4W
R1790	1-216-378-11	METAL OXIDE	5.6	5%	2W F
	(KV-32V40/34VL65C/32V65CND/34VL65/32S40/34SL40/ 34SL40C/32S45/34SL45/34SL40T only)				
R1790	1-216-369-00	METAL OXIDE	1	5%	2W F
	(KV-35V65CND/37VL65/37VL65C/35S40/35S45/37SL45 only)				
R1792	1-247-815-91	CARBON	220	5%	1/4W
R1793	1-247-866-11	CARBON	30K	5%	1/4W
R1794	1-260-132-11	CARBON	560K	5%	1/2W
	(KV-35V65CND/37VL65/37VL65C/35S40/35S45/37SL45 only)				
R1795	1-260-087-11	CARBON	100	5%	1/2W
R1796	1-216-378-11	METAL OXIDE	5.6	5%	2W F
	(KV-32V40/34VL65C/32V65CND/34VL65/32S40/34SL40/ 34SL40C/32S45/34SL45/34SL40T only)				
R1796	1-216-369-00	METAL OXIDE	1	5%	2W F
	(KV-35V65CND/37VL65/37VL65C/35S40/35S45/37SL45 only)				
R1797	1-260-123-11	CARBON	100K	5%	1/2W

G COMPLETE PARTS LISTING

Note:

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Note:

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G

- * **A-1316-389-A G BOARD, COMPLETE**
  (KV-32V40/32S40/34SL40/32S45/34SL45 only)
- * **A-1316-390-A G BOARD, COMPLETE**
  (KV-34VL65C only)
- * **A-1316-391-A G BOARD, COMPLETE**
  (KV-32V65CND/34VL65 only)
- * **A-1316-395-A G BOARD, COMPLETE**
  (KV-34SL40C only)
- * **A-1316-396-A G BOARD, COMPLETE**
  KV-34SL40T only)
- * **A-1316-399-A G BOARD, COMPLETE**
  (KV-35S40/35S45/37SL45 only)
- * **A-1316-405-A G BOARD, COMPLETE**
  (KV-35V65CND/37VL65 only)
- * **A-1316-406-A G BOARD, COMPLETE**
  (KV-37VL65C only)

	1-533-223-11	HOLDER,	FUSE
	4-382-854-11	SCREW(M3X10), P, SW (+)	

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C601	1-136-346-21	FILM	0.22MF	20%	125V
	(KV-35S40/35S45/37SL45/35V65CND/37VL65/37VL65C only)				
C602	1-126-964-11	ELECT	10MF	20%	50V
C603 ⚠	1-113-907-51	CERAMIC CHIP	0.0022MF	20%	250V
	(KV-34VL65C/34SL40C/37VL65C only)				
C603 ⚠	1-113-903-11	CERAMIC	0.001MF	20%	250V
	(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/				
	35V65CND/37VL65/34SL40T/35S40/35S45/37SL45 only)				
C604 ⚠	1-136-346-21	FILM	0.22MF	20%	300V
	(KV-34SL40T only)				
C605 ⚠	1-136-311-11	FILM	0.47MF	20%	300V
	(KV-34VL65C/37VL65C/34SL40C only)				
C605 ⚠	1-136-346-21	FILM	0.22MF	20%	125V
	(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/				
	35V65CND/37VL65/34SL40T/35S40/35S45/37SL45 only)				
C606 ⚠	1-117-894-11	ELECT	560MF	20%	250V
C607 ⚠	1-117-894-11	ELECT	560MF	20%	250V
C608	1-165-127-11	CERAMIC CHIP	470PF	10%	500V
C609	1-136-175-00	FILM	0.68MF	5%	50V
C610	1-136-175-00	FILM	0.68MF	5%	50V
C611	1-136-169-00	FILM	0.22MF	5%	50V
	(KV-32V40/32S40/34SL40/32S45/34SL45/34SL40C/34SL40T/				
	35S40/35S45/37VL65 only)				
C611	1-136-171-00	FILM	0.33MF	5%	50V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/				
	37VL65C only)				
C612	1-136-169-00	FILM	0.22MF	5%	50V
	(KV-32V40/32S40/34SL40/32S45/34SL45/34SL40C/34SL40T/				
	35S40/35S45/37VL65 only)				
C612	1-136-171-00	FILM	0.33MF	5%	50V
	KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C613	1-164-646-11	CERAMIC CHIP	2200PF	10%	500V
C615	1-129-722-00	FILM	0.047MF	5%	630V
C616 ⚠	1-117-699-11	CERAMIC CHIP	0.001MF	20%	250V
	(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/34SL40T/				
	35S40/35S45/37SL45/35V65CND/37VL65 only)				
C624	1-126-961-11	ELECT	2.2MF	20%	50V
C628 ⚠	1-113-924-11	CERAMIC CHIP	0.0047MF	20%	250V
C629 ⚠	1-107-679-91	ELECT	10MF	20%	450V
	(KV-34VL65C/34SL40C/37VL65C only)				
C629 ⚠	1-107-680-91	ELECT	22MF	20%	450V
	(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/34SL40T/				
	35S40/35S45/37SL45/35V65CND/37VL65 only)				
C630	1-130-471-00	MYLAR	0.001MF	5%	50V
C631	1-137-605-11	FILM	0.01MF	10%	250V
C633	1-130-471-00	MYLAR	0.001MF	5%	50V
C634	1-130-467-00	MYLAR	470PF	5%	50V
C635	1-130-471-00	MYLAR	0.001MF	5%	50V
C636	1-126-965-11	ELECT	22MF	20%	50V
C637	1-126-940-11	ELECT	330MF	20%	25V
C640 ⚠	1-113-924-11	CERAMIC CHIP	0.0047MF	20%	250V
C641	1-128-550-11	ELECT	2200MF	20%	50V
C643	1-107-641-11	ELECT	220MF	20%	160V
C647	1-104-665-11	ELECT	100MF	20%	25V
C648	1-126-965-11	ELECT	22MF	20%	50V
	(KV-37VL65C/34SL40C/34VL65C only)				
C650	1-104-664-11	ELECT	47MF	20%	25V
C651	1-137-366-11	FILM	0.0022MF	5%	50V
C652	1-106-351-00	MYLAR	0.0022MF	20%	200V
C653	1-107-636-11	ELECT	10MF	20%	160V
C654	1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C655	1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C656	1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C657	1-164-625-11	CERAMIC CHIP	680PF	10%	500V
C660	1-126-767-11	ELECT	1000MF	20%	16V
C690	1-164-645-11	CERAMIC CHIP	1000PF	10%	500V
C691	1-164-645-11	CERAMIC CHIP	1000PF	10%	500V

Note:

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	CONNECTOR		
CN601	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P (KV-35S40/35S45/37SL45/35V65CND/37VL65/37VL65C only)	
CN602	1-580-844-11	PIN, CONNECTOR (POWER) 2P	
CN603	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P KV-35S40/35S45/37SL45/35V65CND/37VL65 only)	
CN604	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P (KV-32V40/32S40/34SL40/32S45/34SL45/34VL65C/32VCND/34VL65/ 34SL40C/34SL40T/35S40/35S45/37SL45 only)	
CN641	1-564-515-11	PLUG, CONNECTOR 12P	
CN643	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P (KV-32V40/32S40/34SL40/32S45/34SL45/34VL65C/32VCND/34VL65/ 34SL40C/35S40/35S45/37SL45/35V65CND/35VL65/37VL65C only)	
	DIODE		
D600 ⚠	8-719-991-33	DIODE 1SS133T-77	
D601	8-719-991-33	DIODE 1SS133T-77	
D602 ⚠	8-719-510-53	DIODE D4SB60L	
D603	8-719-052-90	DIODE D1NL40-TA2 (KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/ 34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)	
D604	8-719-052-90	DIODE D1NL40-TA2 (KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/ 34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)	
D612	8-719-991-33	DIODE 1SS133T-77	
D613	8-719-991-33	DIODE 1SS133T-77	
D614	8-719-991-33	DIODE 1SS133T-77	
D621 ⚠	8-719-911-55	DIODE U05G	
D622 ⚠	8-719-911-55	DIODE U05G	
D623	8-719-055-18	DIODE ERA22-08TP3	
D624	8-719-991-33	DIODE 1SS133T-77	
D625	8-719-991-33	DIODE 1SS133T-77 (KV-32V40/32S40/34SL40/32S45/34SL45/34VL65C/32V65CND/ 34VL65/34SL40C/34SL40T/35S40/35S45/37SL45/37VL65C only)	
D626	8-719-109-93	DIODE RD6.2ESB2	
D627	8-719-510-48	DIODE D1N20R	
D628	8-719-063-70	DIODE D1NL20U	
D631	8-719-109-69	DIODE RD3.6ES-B2 (KV-37VL65C/34SL40C/34VL65C only)	
D632	8-719-063-70	DIODE D1NL20U-TA2 (KV-37VL65C/34SL40C/34VL65C only)	
D641	8-719-052-92	DIODE D10SBS4F	
D642 ⚠	8-719-510-12	DIODE D10SC4M	
D643	8-719-028-45	DIODE D2L20U	
D644	8-719-028-45	DIODE D2L20U	
D645	8-719-028-45	DIODE D2L20U	
D646	8-719-028-45	DIODE D2L20U	
D647	8-719-063-70	DIODE D1NL20U	
D648	8-719-057-52	DIODE EZ0150AV1	
D649	8-719-510-02	DIODE D1NS4	
D650	8-719-510-02	DIODE D1NS4	
	FUSE		
F601 ⚠	1-576-193-11	FUSE 6.3A/125V (KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/34VL65/ 34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)	
F601 ⚠	1-532-506-51	FUSE 6.3A/250V (KV-37VL65C/34SL40C/34VL65C only)	
	FERRITE BEAD		
FB601	1-410-396-41	FERRITE 0.45UH	
FB602	1-410-396-41	FERRITE 0.45UH	
FB603	1-410-396-41	FERRITE 0.45UH	
FB604	1-410-396-41	FERRITE 0.45UH	
FB641	1-410-397-21	FERRITE 1.1UH	
FB642	1-410-397-21	FERRITE 1.1UH	
FB645	1-410-397-21	FERRITE 1.1UH	
FB647	1-410-397-21	FERRITE 1.1UH	
	IC		
IC601 ⚠	8-729-041-12	TRANSISTOR MX0841AB-F	
IC622	8-759-450-47	IC BA05T	
IC641	8-759-198-03	IC PQ09RF21	
IC643	8-749-012-13	IC DM-58	
	COIL		
L642	1-412-529-11	INDUCTOR 22UH	
	TRANSISTOR		
Q621 ⚠	8-729-044-30	TRANSISTOR 2SK2845-LB102	
Q622	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q644	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q645	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q646	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q647	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q648	8-729-922-39	TRANSISTOR 2SD2144S-V	
	RESISTOR		
R603 ⚠	1-219-776-11	CARBON 2.2M 10% 1/2W (KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/ 34VL65/34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)	
R603 ⚠	1-247-289-00	CARBON 8.2M 5% 1W (KV-34VL65C/34SL40C/37VL65C only)	
R607 ⚠	1-202-933-61	FUSIBLE 0.1 10% 1/2W	F
R608 ⚠	1-216-373-11	METAL 2.2 5% 2W	F

G COMPLETE PARTS LISTING

Note:

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REF.NO.		PART NO.	DESCRIPTION			REMARK	
R611	⚠	1-216-373-11	METAL	2.2	5%	2W	F
R612		1-215-903-11	METAL	68K	5%	2W	F
R613		1-215-903-11	METAL	68K	5%	2W	F
R614		1-215-903-11	METAL	68K	5%	2W	F
R615		1-215-903-11	METAL	68K	5%	2W	F
R618		1-249-425-11	CARBON	4.7K	5%	1/4W	
R619		1-249-425-11	CARBON	4.7K	5%	1/4W	
R620		1-249-425-11	CARBON	4.7K	5%	1/4W	
R621		1-249-429-11	CARBON	10K	5%	1/4W	
R622		1-247-863-91	CARBON	22K	5%	1/4W	
R623	⚠	1-205-943-11	CEMENTED	1	5%	20W	
		(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/					
		34VL65/34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)					
R623	⚠	1-243-032-11	CEMENTED	3.9	5%	20W	
		(KV-34VL65C/34SL40C/37VL65C only)					
R624		1-260-131-11	CARBON	470K	5%	1/2W	
R625		1-260-131-11	CARBON	470K	5%	1/2W	
R626		1-249-425-11	CARBON	4.7K	5%	1/4W	
R627	⚠	1-220-797-11	CEMENTED	0.47	5%	10W	
		(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/					
		34VL65/34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)					
R628		1-240-205-91	CARBON	22M	5%	1/2W	
R629	⚠	1-220-797-11	CEMENTED	0.47	5%	10W	
		(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/					
		34VL65/34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)					
R630		1-215-421-00	METAL	1K	1%	1/4W	
		(KV-34VL65C/37VL65C/34SL40C only)					
R631		1-215-445-00	METAL	10K	1%	1/4W	
		(KV-34VL65C/37VL65C/34SL40C only)					
R632		1-249-421-11	CARBON	2.2K	5%	1/4W	
R633		1-249-429-11	CARBON	10K	5%	1/4W	
R634		1-249-437-11	CARBON	47K	5%	1/4W	
R635		1-247-791-91	CARBON	22	5%	1/4W	
R636		1-249-415-11	CARBON	680	5%	1/4W	
R637		1-260-302-51	CARBON	6.8	5%	1/2W	
R638		1-249-413-11	CARBON	470	5%	1/4W	
R639	⚠	1-249-389-11	CARBON	4.7	5%	1/4W	F
R640		1-215-485-00	METAL	470K	1%	1/4W	
R640		1-247-895-91	CARBON	470K	5%	1/4W	
R641		1-247-843-11	CARBON	3.3K	5%	1/4W	
R642		1-247-843-11	CARBON	3.3K	5%	1/4W	
R643		1-249-387-11	CARBON	3.3	5%	1/4W	F
R648		1-247-887-00	CARBON	220K	5%	1/4W	
R649		1-249-425-11	CARBON	4.7K	5%	1/4W	F
R659		1-249-429-11	CARBON	10K	5%	1/4W	
R660	⚠	1-249-393-11	CARBON	10	5%	1/4W	F
R661		1-249-419-11	CARBON	1.5K	5%	1/4W	F
R666	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R667	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R668	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R670	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R671	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F
R672	⚠	1-249-377-11	CARBON	0.47	5%	1/4W	F

RELAY

RY600	⚠	1-755-266-11	RELAY, AC POWER
RY601	⚠	1-755-146-11	RELAY, AC POWER

TRANSFORMER

T601	⚠	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)
		(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/	
		34VL65/34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)	
T602	⚠	1-426-717-11	TRANSFORMER, LINE FILTER (LFT)
T603	⚠	1-429-992-21	TRANSFORMER, CONVERTER (PRT)
T605	⚠	1-429-415-11	TRANSFORMER, CONVERTER (PIT)
		(KV-32V40/32S40/34SL40/32S45/34SL45/34SL40C/34SL40T/35S40/	
		35S45/37SL45 only)	
T605	⚠	1-431-467-11	TRANSFORMER, CONVERTER (PIT)
		(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
T621	⚠	1-431-852-11	TRANSFORMER, CONVEŸbER (SRT)

THERMISTOR

THP601	⚠	1-809-539-11	THERMISTOR, POSITIVE
		(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/	
		34VL65/35S40/35S45/37SL45/35V65CND/37VL65 only)	
THP601	⚠	1-809-827-11	THERMISTOR, POSITIVE
		(KV-34VL65C/34SL40C/34SL40T/37VL65C only)	

VARISTOR

VDR602	1-801-074-41	VARISTOR ERZV10D271
	(KV-32V40/32S40/34SL40/32S45/34SL45/32V65CND/	
	34VL65/34SL40T/35S40/35S45/37SL45/35V65CND/37VL65 only)	
VDR602	1-809-267-41	VARISTOR ERZV10D471
	(KV-34VL65C/34SL40C/37VL65C only)	

REF.NO.	PART NO.	DESCRIPTION			REMARK
HS					
*	**A-1372-507-A**	**HS BOARD, COMPLETE** (KV-35S40/35S45/37SL45 only)			
*	**A-1372-510-A**	**HS BOARD, COMPLETE** (KV-32V40/34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
*	**A-1372-519-A**	**HS BOARD, COMPLETE** (KV-32S45/34SL45 only)			
		CAPACITOR			
C2168	1-104-665-11	ELECT (KV-32S45/34SL45 only)	100MF	20%	25V
C2169	1-126-959-11	ELECT (KV-32S45/34SL45 only)	0.47MF	20%	50V
		CONNECTOR			
CN2101	1-564-524-11	PLUG, CONNECTOR 9P			
CN2102	1-564-523-11	PLUG, CONNECTOR 8P (KV-32V40/34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C/32S45/34SL45 only)			
		DIODE			
D2106	1-810-039-11	LED UNIT (KV-32S45/34SL45 only)			
		IC			
IC2103	8-742-014-11	HYB IC SBX1981-51 (KV-32S45/34SL45 only)			
		RESISTOR			
R2109	1-216-033-00	RES, CHIP (KV-32S45/34SL45 only)	220	5%	1/10W
R2110	1-216-033-00	RES, CHIP (KV-32S45/34SL45 only)	220	5%	1/10W
R2159	1-216-047-91	RES, CHIP (KV-32S45/34SL45 only)	820	5%	1/10W
R2160	1-216-049-91	RES, CHIP (KV-32S45/34SL45 only)	1K	5%	1/10W
R2161	1-216-055-00	RES, CHIP (KV-32S45/34SL45 only)	1.8K	5%	1/10W
R2162	1-216-065-91	RES, CHIP (KV-32S45/34SL45 only)	4.7K	5%	1/10W
R2163	1-216-073-00	RES, CHIP (KV-32S45/34SL45 only)	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
		SWITCH	
S2101	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	
S2102	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	
S2103	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	
S2104	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	
S2105	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	
S2106	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	
S2107	1-692-431-21	SWITCH, TACTILE (KV-32S45/34SL45 only)	

HV

REF.NO.	PART NO.	DESCRIPTION			REMARK
		*** A-1372-505-A HV BOARD, COMPLETE** (KV-32V40 only)			
		*** A-1372-509-A HV BOARD, COMPLETE** (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
		*** A-1372-523-A HV BOARD, COMPLETE** (KV-35S40/35S45/37SL45 only)			
		CAPACITOR			
C2068	1-104-665-11	ELECT	100MF	20%	25V
C2070	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C2231	1-163-031-11	CERAMIC CHIP	0.01MF		50V (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
C2232	1-136-161-00	FILM	0.047MF	5%	50V (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
C2233	1-136-161-00	FILM	0.047MF	5%	50V (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only) (KV-32V40 only)
C2234	1-126-960-11	ELECT	1MF	20%	50V (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only) (KV-32V40 only)
C2235	1-126-960-11	ELECT	1MF	20%	50V (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only) (KV-32V40 only)
		CONNECTOR			
CN2002*	1-564-518-11	PLUG, CONNECTOR 3P (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
		DIODE			
D2006	1-810-039-11	LED UNIT			
D2231	8-719-110-17	DIODE RD10ESB2 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
D2232	8-719-110-17	DIODE RD10ESB2 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
D2233	8-719-110-17	DIODE RD10ESB2 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
D2236	8-719-110-17	DIODE RD10ESB2 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only) (KV-32V40 only)			
		IC			
IC2003	8-742-014-11	HYB IC SBX1981-51			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		JACK			
J2231	1-691-110-11	JACK, PIN 3P (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only) (KV-32V40 only)			
J2232	1-694-063-11	TERMINAL, S (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)			
		RESISTOR			
R2009	1-216-033-00	RES, CHIP	220	5%	1/10W
R2010	1-216-033-00	RES, CHIP	220	5%	1/10W
R2059	1-216-047-91	RES, CHIP	820	5%	1/10W (KV-35S40/35S45/37SL45 only)
R2060	1-216-049-91	RES, CHIP	1K	5%	1/10W (KV-32V40 only) (KV-35S40/35S45/37SL45 only)
R2061	1-216-055-00	RES, CHIP	1.8K	5%	1/10W (KV-32V40 only) (KV-35S40/35S45/37SL45 only)
R2062	1-216-065-91	RES, CHIP	4.7K	5%	1/10W (KV-32V40 only) (KV-35S40/35S45/37SL45 only)
R2063	1-216-073-00	RES, CHIP	10K	5%	1/10W (KV-32V40 only) (KV-35S40/35S45/37SL45 only)
R2231	1-216-022-00	RES, CHIP	75	5%	1/10W (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2232	1-216-022-00	RES, CHIP	75	5%	1/10W (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2233	1-216-065-91	RES, CHIP	4.7K	5%	1/10W (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2235	1-216-022-00	RES, CHIP	75	5%	1/10W (KV-32V40 only) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2236	1-216-113-00	RES, CHIP	470K	5%	1/10W KV-32V40 only) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2237	1-216-065-91	RES, CHIP	4.7K	5%	1/10W KV-32V40 only) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2238	1-216-113-00	RES, CHIP	470K	5%	1/10W KV-32V40 only) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
R2239	1-216-065-91	RES,CHIP	4.7K	5%	1/10W (KV-32V40 only) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
		SWITCH			

REF.NO.	PART NO.	DESCRIPTION	REMARK
S2001	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	
S2002	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	
S2003	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	
S2004	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	
S2005	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	
S2006	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	
S2007	1-692-431-21	SWITCH, TACTILE (KV-32V40 only) (KV-35S40/35S45/37SL45 only)	

REF.NO.	PART NO.	DESCRIPTION	REMARK

K

*** A-1380-585-A K BOARD, COMPLETE**
(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)

*	1-556-945-21	CABLE, P-P
*	1-557-056-31	CABLE, P-P
*	4-052-905-01	V5/6 BRACKET
	8-598-414-00	ANTENNA SWITCH AS-2F

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1461	1-126-960-11	ELECT	1MF	20%	50V
C1462	1-126-960-11	ELECT	1MF	20%	50V
C1463	1-126-961-11	ELECT	2.2MF	20%	50V
C1464	1-104-666-11	ELECT	220MF	20%	25V
C1465	1-126-960-11	ELECT	1MF	20%	50V
C1467	1-104-664-11	ELECT	47MF	20%	25V
C1468	1-126-960-11	ELECT	1MF	20%	50V
C1470	1-104-666-11	ELECT	220MF	20%	25V
C1471	1-136-169-00	FILM	0.22MF	5%	50V
C1472	1-136-173-00	FILM	0.47MF	5%	50V
C1473	1-128-550-11	ELECT	2200MF	20%	50V
C1474	1-136-169-00	FILM	0.22MF	5%	50V
C1475	1-128-550-11	ELECT	2200MF	20%	50V
C1476	1-128-550-11	ELECT	2200MF	20%	50V
C1477	1-104-665-11	ELECT	100MF	20%	25V
C1478	1-126-969-11	ELECT	220MF	20%	50V

CONNECTOR

REF.NO.		PART NO.	DESCRIPTION
CN1461	*	1-564-508-11	PLUG, CONNECTOR 5P
CN1462	*	1-564-507-11	PLUG, CONNECTOR 4P
CN1463	*	1-564-508-11	PLUG, CONNECTOR 5P

DIODE

REF.NO.	PART NO.	DESCRIPTION
D1461	8-719-991-33	DIODE 1SS133T-77
D1462	8-719-979-50	DIODE EGP30D
D1463	8-719-991-33	DIODE 1SS133T-77
D1464	8-719-991-33	DIODE 1SS133T-77
D1465	8-719-991-33	DIODE 1SS133T-77
D1466	8-719-979-50	DIODE EGP30D
D1467	8-719-979-50	DIODE EGP30D

IC

REF.NO.	PART NO.	DESCRIPTION
IC1461	8-759-089-13	IC TDA7262

IC LINK

REF.NO.	PART NO.	DESCRIPTION
PS1461	1-532-984-11	LINK, IC 2A/90V

TRANSISTOR

REF.NO.	PART NO.	DESCRIPTION
Q1461	8-729-422-27	TRANSISTOR 2SD601A-Q
Q1462	8-729-216-22	TRANSISTOR 2SA1162-G
Q1463	8-729-900-53	TRANSISTOR DTC114EK
Q1464	8-729-900-53	TRANSISTOR DTC114EK
Q1465	8-729-216-22	TRANSISTOR 2SA1162-G

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1461	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R1462	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1464	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R1465	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R1466	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1467	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1469	1-249-385-11	CARBON	2.2	5%	1/4W F
R1470	1-249-385-11	CARBON	2.2	5%	1/4W F
R1471	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1472	1-216-041-00	RES, CHIP	470	5%	1/10W
R1473	1-216-113-00	RES, CHIP	470K	5%	1/10W
R1474	1-216-077-00	RES, CHIP	15K	5%	1/10W
R1475	1-216-077-00	RES, CHIP	15K	5%	1/10W
R1476	1-247-791-91	CARBON	22	5%	1/4W
R1477	1-249-417-11	CARBON	1K	5%	1/4W F
R1478	1-247-791-91	CARBON	22	5%	1/4W
R1479	1-249-417-11	CARBON	1K	5%	1/4W F
R1480	1-249-421-11	CARBON	2.2K	5%	1/4W
R1481	1-249-421-11	CARBON	2.2K	5%	1/4W
R1482	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1483	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1487	1-216-025-91	RES, CHIP	100	5%	1/10W
R1488	1-216-073-00	RES, CHIP	10K	5%	1/10W

P

*** A-1195-138-A P BOARD, COMPLETE**

(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)
(KV-32S45/34SL45/35S45/37SL45 only)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3320	1-126-960-11	ELECT	1MF	20%	50V
C3321	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3322	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3323	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3324	1-104-664-11	ELECT	47MF	20%	16V
C3328	1-104-664-11	ELECT	47MF	20%	16V
C3329	1-104-664-11	ELECT	47MF	20%	16V
C3330	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3331	1-104-664-11	ELECT	47MF	20%	16V
C3332	1-104-664-11	ELECT	47MF	20%	25V
C3334	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3335	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3336	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3337	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3340	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3346	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3347	1-126-960-11	ELECT	1MF	20%	50V
C3348	1-104-664-11	ELECT	47MF	20%	16V
C3349	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C3350	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3352	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3353	1-164-346-11	CERAMIC CHIP	1MF		16V
C3354	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3355	1-126-925-11	ELECT	470MF	20%	10V
C3356	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3357	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3358	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3359	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3360	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3361	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3362	1-126-925-11	ELECT	470MF	20%	10V
C3363	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C3364	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C3365	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C3366	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3367	1-126-963-11	ELECT	4.7MF	20%	50V
C3368	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3369	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3370	1-164-346-11	CERAMIC CHIP	1MF		16V
C3371	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3372	1-164-005-11	CERAMIC CHIP	0.47MF		25V

CONNECTOR

CN3301*	1-764-816-11	CONNECTOR, BOARD TO BOARD 20P	

IC

IC3302	8-759-231-53	IC TA7805S	
IC3303	8-759-533-89	IC SDA9288XE-GEG-B121	
IC3304	8-752-086-80	IC CXA2019AQ-T4	

COIL

L3301	1-408-607-31	INDUCTOR 22UH	
L3302	1-410-473-11	INDUCTOR 18UH	
L3303	1-408-612-31	INDUCTOR 56UH	

TRANSISTOR

Q3301	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3310	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3312	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3314	8-729-216-22	TRANSISTOR 2SA1162-G	

RESISTOR

R3301	1-216-295-91	SHORT			
R3302	1-216-295-91	SHORT			
R3305	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3312	1-216-037-00	RES, CHIP	330	5%	1/10W
R3313	1-216-295-91	SHORT			
R3314	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3323	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R3329	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R3330	1-216-295-91	SHORT			
R3337	1-216-033-00	RES, CHIP	220	5%	1/10W
R3338	1-216-033-00	RES, CHIP	220	5%	1/10W
R3339	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3340	1-216-041-00	RES, CHIP	470	5%	1/10W
R3341	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3342	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3343	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3346	1-216-049-91	RES, CHIP	1K	5%	1/10W
R3351	1-216-295-91	SHORT			
R3352	1-216-049-91	RES, CHIP	1K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R3358	1-216-047-91	RES, CHIP	820	5%	1/10W
R3359	1-216-047-91	RES, CHIP	820	5%	1/10W
R3360	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R3361	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R3362	1-216-041-00	RES, CHIP	470	5%	1/10W
R3363	1-216-041-00	RES, CHIP	470	5%	1/10W
R3364	1-216-041-00	RES, CHIP	470	5%	1/10W
R3375	1-216-041-00	RES, CHIP	470	5%	1/10W
R3376	1-216-071-00	RES, CHIP	8.2K	5%	1/10W
R3377	1-216-073-00	RES, CHIP	10K	5%	1/10W
R3378	1-208-786-11	RES, CHIP	1.5K	0.50%	1/10W
R3379	1-216-077-00	RES, CHIP	15K	5%	1/10W
R3380	1-216-025-91	RES, CHIP	100	5%	1/10W
R3381	1-216-025-91	RES, CHIP	100	5%	1/10W
R3382	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R3383	1-216-025-91	RES, CHIP	100	5%	1/10W
R3384	1-216-033-00	RES, CHIP	220	5%	1/10W
R3385	1-216-109-00	RES, CHIP	330K	5%	1/10W
R3386	1-216-295-91	SHORT			
R3387	1-216-295-91	SHORT			
R3388	1-216-295-91	SHORT			
R3393	1-216-025-91	RES, CHIP	100	5%	1/10W
R3394	1-216-025-91	RES, CHIP	100	5%	1/10W
R3395	1-216-061-00	RES, CHIP	3.3K	5%	1/10W

CRYSTAL

X3302	1-760-095-21	VIBRATOR, CRYSTAL
X3303	1-577-611-11	OSCILLATOR, CERAMIC
X3304	1-567-505-11	OSCILLATOR, CRYSTAL

REF.NO.	PART NO.	DESCRIPTION	REMARK

UV

* **A-1394-905-A UV BOARD, COMPLETE**
(KV-32V40 only)

* **A-1394-906-A UV BOARD, COMPLETE**
(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C100	1-164-346-11	CERAMIC CHIP	1MF		16V
C101	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C102	1-164-346-11	CERAMIC CHIP	1MF		16V
C103	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C104	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C105	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C150	1-126-956-91	ELECT	0.1MF	20%	50V
C153	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C154	1-126-963-11	ELECT	4.7MF	20%	50V
C155	1-126-963-11	ELECT	4.7MF	20%	50V
C156	1-126-963-11	ELECT	4.7MF	20%	50V
C158	1-126-963-11	ELECT	4.7MF	20%	50V
C160	1-126-964-11	ELECT	10MF	20%	50V
C161	1-126-956-91	ELECT	0.1MF	20%	50V
C162	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C163	1-104-664-11	ELECT	47MF	20%	25V
C164	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C165	1-126-964-11	ELECT	10MF	20%	50V
C168	1-126-963-11	ELECT	4.7MF	20%	50V
C171	1-126-941-11	ELECT	470MF	20%	25V
C172	1-126-959-11	ELECT	0.47MF	20%	50V
C173	1-126-959-11	ELECT	0.47MF	20%	50V
C174	1-126-964-11	ELECT	10MF	20%	50V
C176	1-126-964-11	ELECT	10MF	20%	50V
C177	1-126-964-11	ELECT	10MF	20%	50V
C178	1-126-964-11	ELECT	10MF	20%	50V
C179	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C180	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C181	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C182	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C183	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C184	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C185	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C187	1-126-964-11	ELECT	10MF	20%	50V
C188	1-126-956-91	ELECT	0.1MF	20%	50V
C189	1-126-956-91	ELECT	0.1MF	20%	50V
C190	1-163-986-00	CERAMIC CHIP	0.027MF	10%	25V
C191	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C192	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C193	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C194	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C195	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C196	1-126-965-11	ELECT	22MF	20%	50V
C197	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C198	1-126-960-11	ELECT	1MF	20%	50V
C199	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C231	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C232	1-136-161-00	FILM	0.047MF	5%	50V
C233	1-136-161-00	FILM	0.047MF	5%	50V
C234	1-126-960-11	ELECT	1MF	20%	50V
C235	1-126-960-11	ELECT	1MF	20%	50V
C236	1-136-161-00	FILM	0.047MF	5%	50V
C237	1-126-960-11	ELECT	1MF	20%	50V
C238	1-126-960-11	ELECT	1MF	20%	50V
C241	1-126-941-11	ELECT	470MF	20%	25V
C242	1-126-959-11	ELECT	0.47MF	20%	50V
C244	1-126-959-11	ELECT	0.47MF	20%	50V
C245	1-126-941-11	ELECT	470MF	20%	25V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C246	1-126-959-11	ELECT	0.47MF	20%	50V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C247	1-126-959-11	ELECT	0.47MF	20%	50V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C261	1-136-161-00	FILM	0.047MF	5%	50V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C262	1-104-664-11	ELECT	47MF	20%	25V
C263	1-136-161-00	FILM	0.047MF	5%	50V
C264	1-126-941-11	ELECT	470MF	20%	25V
C266	1-126-960-11	ELECT	1MF	20%	50V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C267	1-126-960-11	ELECT	1MF	20%	50V
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
C270	1-126-960-11	ELECT	1MF	20%	50V
C271	1-126-960-11	ELECT	1MF	20%	50V
C275	1-104-664-11	ELECT	47MF	20%	25V
C276	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

CONNECTOR

CN261	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P	
CN262	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN263 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN264	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN265	1-564-508-11	PLUG, CONNECTOR 5P	
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)		

Note:

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Note:

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		DIODE	
D100	8-719-981-99	DIODE MTZJ-3.3	
D231	8-719-110-17	DIODE RD10ESB2	
D232	8-719-110-17	DIODE RD10ESB2	
D233	8-719-110-17	DIODE RD10ESB2	
D234	8-719-110-17	DIODE RD10ESB2	
D235	8-719-110-17	DIODE RD10ESB2	
D236	8-719-110-17	DIODE RD10ESB2	
D237	8-719-981-99	DIODE MTZJ-3.3	
D238	8-719-981-99	DIODE MTZJ-3.3	
D239	8-719-981-99	DIODE MTZJ-3.3 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65Conly)	
D240	8-719-110-17	DIODE RD10ESB2	
D241	8-719-110-17	DIODE RD10ESB2	
D242	8-719-110-17	DIODE RD10ESB2	
D243	8-719-110-17	DIODE RD10ESB2	
D244	8-719-110-17	DIODE RD10ESB2	
D245	8-719-981-99	DIODE MTZJ-3.3 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
D246	8-719-981-99	DIODE MTZJ-3.3	
D264	8-719-110-17	DIODE RD10ESB2	
D265	8-719-110-17	DIODE RD10ESB2	
D902	8-719-110-17	DIODE RD10ESB2 (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
		IC	
IC100	8-752-072-39	IC CXA2021S	
IC101	8-759-100-96	IC UPC4558G2	
IC102	8-759-537-25	IC NJM2150M	
IC103	8-759-537-26	IC TDA7467D	
IC261	8-759-366-77	IC MM1311AD (KV-32V40 only)	
IC261	8-759-534-81	IC MM1313AD (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
		JACK	
J231	1-750-515-11	TERMINAL BLOCK, S 3P	
J232	1-750-517-11	JACK BLOCK, PIN 3P	
J233	1-750-516-11	JACK BLOCK, PIN 2P	
J234	1-750-517-11	JACK BLOCK, PIN 3P	
J235	1-750-517-11	JACK BLOCK, PIN 3P (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
J902	1-764-143-11	JACK 3P (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
J903	1-764-143-11	JACK 3P (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
J904	1-764-143-11	JACK 3P (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
		CHIP CONDUCTOR	
JR101	1-216-295-91	SHORT (KV-32V40 only)	
JR106	1-216-295-91	SHORT	
JR107	1-216-295-91	SHORT	
JR109	1-216-295-91	SHORT (KV-32V40 only)	
JR201	1-216-295-91	SHORT	
JR204	1-216-295-91	SHORT	
JR205	1-216-295-91	SHORT	
JR269	1-216-295-91	SHORT	
JR270	1-216-295-91	SHORT	
JR272	1-216-295-91	SHORT	
JR273	1-216-295-91	SHORT	
JR274	1-216-295-91	SHORT	
JR276	1-216-295-91	SHORT	
JR901	1-216-295-91	SHORT (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
		TRANSISTOR	
Q100	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q101	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q232	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
Q233	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q234	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q235	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
Q236	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
Q237	8-729-216-22	TRANSISTOR 2SA1162-G	
Q238	8-729-216-22	TRANSISTOR 2SA1162-G	
Q239	8-729-216-22	TRANSISTOR 2SA1162-G	
Q240	8-729-216-22	TRANSISTOR 2SA1162-G (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
Q241	8-729-216-22	TRANSISTOR 2SA1162-G (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
Q242	8-729-216-22	TRANSISTOR 2SA1162-G (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)	
Q243	8-729-216-22	TRANSISTOR 2SA1162-G	

Note:

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Note:

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REF.NO.	PART NO.	DESCRIPTION			REMARK
Q261	8-729-422-27	TRANSISTOR 2SD601A-Q			
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
Q262	8-729-422-27	TRANSISTOR 2SD601A-Q			
Q263	8-729-216-22	TRANSISTOR 2SA1162-G			
Q265	8-729-216-22	TRANSISTOR 2SA1162-G			
	RESISTOR				
R100	1-216-033-00	RES, CHIP	220	5%	1/10W
R101	1-216-033-00	RES, CHIP	220	5%	1/10W
R102	1-216-073-00	RES, CHIP	10K	5%	1/10W
R103	1-216-093-00	RES, CHIP	68K	5%	1/10W
R104	1-216-089-91	RES, CHIP	47K	5%	1/10W
R105	1-216-089-91	RES, CHIP	47K	5%	1/10W
R106	1-216-049-91	RES, CHIP	1K	5%	1/10W
R107	1-216-049-91	RES, CHIP	1K	5%	1/10W
R108	1-216-073-00	RES, CHIP	10K	5%	1/10W
R109	1-216-089-91	RES, CHIP	47K	5%	1/10W
R110	1-216-089-91	RES, CHIP	47K	5%	1/10W
R111	1-216-025-91	RES, CHIP	100	5%	1/10W
R112	1-216-121-91	RES, CHIP	1M	5%	1/10W
R113	1-216-081-00	RES, CHIP	22K	5%	1/10W
R114	1-216-081-00	RES, CHIP	22K	5%	1/10W
R115	1-216-081-00	RES, CHIP	22K	5%	1/10W
R116	1-216-081-00	RES, CHIP	22K	5%	1/10W
R117	1-216-073-00	RES, CHIP	10K	5%	1/10W
R118	1-216-073-00	RES, CHIP	10K	5%	1/10W
R119	1-216-073-00	RES, CHIP	10K	5%	1/10W
R124	1-216-033-00	RES, CHIP	220	5%	1/10W
R125	1-216-033-00	RES, CHIP	220	5%	1/10W
R126	1-216-063-91	RES, CHIP	3.9K	5%	1/10W
R127	1-216-089-91	RES, CHIP	47K	5%	1/10W
R128	1-216-085-00	RES, CHIP	33K	5%	1/10W
R129	1-216-053-00	RES, CHIP	1.5K	5%	1/10W
R130	1-216-100-00	RES, CHIP	130K	5%	1/10W
R131	1-216-049-91	RES, CHIP	1K	5%	1/10W
R132	1-216-088-00	RES, CHIP	43K	5%	1/10W
R133	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R134	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R135	1-216-097-91	RES, CHIP	100K	5%	1/10W
R136	1-216-093-00	RES, CHIP	68K	5%	1/10W
R137	1-216-025-91	RES, CHIP	100	5%	1/10W
R141	1-216-295-91	SHORT			
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R142	1-216-295-91	SHORT			
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R201	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R202	1-216-049-91	RES, CHIP	1K	5%	1/10W
R203	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R204	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R206	1-216-049-91	RES, CHIP	1K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R207	1-216-295-91	SHORT			
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R208	1-216-049-91	RES, CHIP	1K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R209	1-216-069-00	RES, CHIP	6.8K	5%	14W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R210	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R212	1-249-440-11	CARBON	82K	5%	1/4W
R213	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R214	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R215	1-249-413-11	CARBON	470	5%	1/4W
R216	1-216-025-91	RES, CHIP	100	5%	1/10W
R217	1-216-025-91	RES, CHIP	100	5%	1/10W
R218	1-216-025-91	RES, CHIP	100	5%	1/10W
R219	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R220	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R221	1-249-413-11	CARBON	470	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R222	1-216-025-91	RES, CHIP	100	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R223	1-216-025-91	RES, CHIP	100	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R224	1-216-025-91	RES, CHIP	100	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R225	1-247-815-91	CARBON	220	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R226	1-247-815-91	CARBON	220	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R227	1-249-440-11	CARBON	82K	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R228	1-216-033-00	RES, CHIP	220	5%	1/10W
R229	1-216-025-91	RES, CHIP	100	5%	1/10W
R230	1-216-033-00	RES, CHIP	220	5%	1/10W
R231	1-216-022-00	RES, CHIP	75	5%	1/10W
R232	1-216-022-00	RES, CHIP	75	5%	1/10W
R233	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R234	1-216-022-00	RES, CHIP	75	5%	1/10W
R235	1-216-113-00	RES, CHIP	470K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R236	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R237	1-216-113-00	RES, CHIP	470K	5%	1/10W
R238	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R239	1-216-022-00	RES, CHIP	75	5%	1/10W
R240	1-216-113-00	RES, CHIP	470K	5%	1/10W
R241	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R242	1-216-113-00	RES, CHIP	470K	5%	1/10W
R243	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R244	1-216-113-00	RES, CHIP	470K	5%	1/10W
R245	1-249-417-11	CARBON	1K	5%	1/4W
R246	1-216-113-00	RES, CHIP	470K	5%	1/10W
R247	1-249-417-11	CARBON	1K	5%	1/4W
R248	1-216-021-00	RES, CHIP	68	5%	1/10W
R249	1-216-113-00	RES, CHIP	470K	5%	1/10W
R250	1-216-113-00	RES, CHIP	470K	5%	1/10W
R251	1-216-113-00	RES, CHIP	470K	5%	1/10W
R252	1-216-019-00	RES, CHIP	56	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R253	1-216-113-00	RES, CHIP	470K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R254	1-216-113-00	RES, CHIP	470K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R255	1-216-113-00	RES, CHIP	470K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R256	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
R258	1-216-069-00	RES, CHIP	6.8K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R259	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R260	1-247-807-31	CARBON	100	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R261	1-216-009-00	RES, CHIP	22	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R264	1-247-815-91	CARBON	220	5%	1/4W
R265	1-247-815-91	CARBON	220	5%	1/4W
R266	1-216-043-91	RES, CHIP	560	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R267	1-249-415-11	CARBON	680	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R268	1-216-025-91	RES, CHIP	100	5%	1/10W
R269	1-216-025-91	RES, CHIP	100	5%	1/10W
R270	1-216-041-00	RES, CHIP	470	5%	1/10W
R271	1-249-415-11	CARBON	680	5%	1/4W
R272	1-249-417-11	CARBON	1K	5%	1/4W
R274	1-249-413-11	CARBON	470	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R275	1-249-425-11	CARBON	4.7K	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R276	1-249-425-11	CARBON	4.7K	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R277	1-216-049-91	RES, CHIP	1K	5%	1/10W
R278	1-249-413-11	CARBON	470	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R279	1-216-025-91	RES, CHIP	100	5%	1/10W
R280	1-216-033-00	RES, CHIP	220	5%	1/10W
R281	1-216-033-00	RES, CHIP	220	5%	1/10W
R282	1-216-025-91	RES, CHIP	100	5%	1/10W
R283	1-216-025-91	RES, CHIP	100	5%	1/10W
R284	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R285	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R286	1-216-049-91	RES, CHIP	1K	5%	1/10W
R288	1-247-815-91	CARBON	220	5%	1/4W
R289	1-247-815-91	CARBON	220	5%	1/4W
R290	1-247-815-91	CARBON	220	5%	1/4W
R291	1-216-025-91	RES, CHIP	100	5%	1/10W
R292	1-216-025-91	RES, CHIP	100	5%	1/10W
	(KV-32V40 only)				
R293	1-216-025-91	RES, CHIP	100	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R294	1-216-049-91	RES, CHIP	1K	5%	1/10W
R902	1-249-405-11	CARBON	100	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R919	1-216-295-91	SHORT			
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R920	1-249-405-11	CARBON	100	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R921	1-249-405-11	CARBON	100	5%	1/4W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R922	1-216-049-91	RES, CHIP	1K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R923	1-216-049-91	RES, CHIP	1K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				
R924	1-216-049-91	RES, CHIP	1K	5%	1/10W
	(KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C only)				

WA

*** A-1372-462-A WA BOARD, COMPLETE**
(KV-35S40/35S45/37SL45/35V65CND/37VL65/37VL65C only)

4-382-854-11 SCREW (M3X10), P, SW (+)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			
C941	1-126-935-11	ELECT	470MF	20%	16V
C944	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C945	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C946	1-126-933-11	ELECT	100MF	20%	16V
C949	1-161-830-00	CERAMIC CHIP	0.0047MF		500V
C950	1-126-933-11	ELECT	100MF	20%	16V
C951	1-107-638-11	ELECT	33MF	20%	160V
C952	1-104-999-11	MYLAR	0.1MF	10%	200V
C953	1-106-383-00	MYLAR	0.047MF	10%	200V
C954	1-137-364-11	FILM	0.001MF	5%	50V
C955	1-107-667-11	ELECT	2.2MF	20%	160V
C956	1-137-364-11	FILM	0.001MF	5%	50V
C957	1-106-383-00	MYLAR	0.047MF	10%	200V
C958	1-126-933-11	ELECT	100MF	20%	16V
C961	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C962	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C965	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C966	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C967	1-129-718-00	FILM	0.022MF	5%	630V
C968	1-137-579-11	FILM	0.068MF	5%	100V
C969	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C981	1-126-941-11	ELECT	470MF	20%	25V
C983	1-137-366-11	FILM	0.0022MF	5%	50V

CONNECTOR

CN941	1-564-511-11	PLUG, CONNECTOR 8P	
CN961 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN981 *	1-564-506-11	PLUG, CONNECTOR 3P	

DIODE

D941	8-719-991-33	DIODE	1SS133T-77
D946	8-719-110-88	DIODE	RD39ESB2
D947	8-719-110-88	DIODE	RD39ESB2
D961	8-719-109-89	DIODE	RD5.6ESB2
D962	8-719-991-33	DIODE	1SS133T-77
D964	8-719-302-43	DIODE	EL1Z

REF.NO.	PART NO.	DESCRIPTION			

IC

IC961	8-759-700-07	IC	NJM2903M		
IC981	8-759-603-37	IC	M5216P		

COIL

L942	1-215-863-11	METAL OXIDE	100	5%	1W F
L962	1-406-989-21	INDUCTOR			
L963	1-406-675-11	INDUCTOR			

JUMPER WIRE

JW919	1-136-165-00	FILM	0.1MF	5%	50V

TRANSISTOR

Q943	8-729-422-27	TRANSISTOR	2SD601A-Q
Q944	8-729-422-27	TRANSISTOR	2SD601A-Q
Q945	8-729-422-27	TRANSISTOR	2SD601A-Q
Q946	8-729-017-05	TRANSISTOR	2SA1837
Q947	8-729-017-06	TRANSISTOR	2SC4793
Q962	8-729-931-45	TRANSISTOR	IRF614
Q963	8-729-216-22	TRANSISTOR	2SA1162-G
Q965	8-729-422-27	TRANSISTOR	2SD601A-Q
Q966	8-729-216-22	TRANSISTOR	2SA1162-G
Q981	8-729-422-27	TRANSISTOR	2SD601A-Q

RESISTOR

R943	1-216-025-91	RES, CHIP	100	5%	1/10W
R948	1-216-049-91	RES, CHIP	1K	5%	1/10W
R949	1-216-049-91	RES, CHIP	1K	5%	1/10W
R950	1-216-049-91	RES, CHIP	1K	5%	1/10W
R951	1-216-049-91	RES, CHIP	1K	5%	1/10W
R952	1-216-037-00	RES, CHIP	330	5%	1/10W
R953	1-216-021-00	RES, CHIP	68	5%	1/10W
R954	1-216-033-00	RES, CHIP	220	5%	1/10W
R955	1-216-047-91	RES, CHIP	820	5%	1/10W
R956	1-216-295-91	SHORT			
R957	1-216-073-00	RES, CHIP	10K	5%	1/10W
R958	1-216-295-91	SHORT			
R959	1-216-021-00	RES, CHIP	68	5%	1/10W
R960	1-216-689-11	RES, CHIP	39K	5%	1/10W
R961	1-216-073-00	RES, CHIP	10K	5%	1/10W
R962	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
R963	1-216-097-91	RES, CHIP	100K	5%	1/10W
R964	1-216-073-00	RES, CHIP	10K	5%	1/10W
R965	1-216-073-00	RES, CHIP	10K	5%	1/10W
R966	1-216-097-91	RES, CHIP	100K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R967	1-216-065-91	RES, CHIP	4.7K	5%	1/10W
R968	1-216-083-00	RES, CHIP	27K	5%	1/10W
R969	1-216-295-91	SHORT			
R970	1-216-033-00	RES, CHIP	220	5%	1/10W
R971	1-247-899-11	CARBON	680K	5%	1/4W
R972	1-216-073-00	RES, CHIP	10K	5%	1/10W
R973	1-216-121-91	RES, CHIP	1M	5%	1/10W
R974	1-216-073-00	RES, CHIP	10K	5%	1/10W
R975	1-216-446-00	METAL OXIDE	18	5%	2W F
R976	1-216-423-11	METAL OXIDE	27	5%	1W F
R979	1-216-017-91	RES, CHIP	47	5%	1/10W
R981	1-216-081-00	RES, CHIP	22K	5%	1/10W
R982	1-216-081-00	RES, CHIP	22K	5%	1/10W
R983	1-216-081-00	RES, CHIP	22K	5%	1/10W
R984	1-216-081-00	RES, CHIP	22K	5%	1/10W
R987	1-216-049-91	RES, CHIP	1K	5%	1/10W
R988	1-216-295-91	SHORT			
R989	1-216-304-11	RES, CHIP	3.3	5%	1/10W
R992	1-216-073-00	RES, CHIP	10K	5%	1/10W
R1941	1-260-311-11	CARBON	39	5%	1/2W
R1942	1-249-384-11	CARBON	1.8	5%	1/4W F
R1943	1-249-414-11	CARBON	560	5%	1/4W F
R1944	1-249-432-11	CARBON	18K	5%	1/4W
R1945	1-216-476-11	METAL OXIDE	180	5%	3W F
R1946	1-249-417-11	CARBON	1K	5%	1/4W F
R1947	1-249-432-11	CARBON	18K	5%	1/4W
R1948	1-249-414-11	CARBON	560	5%	1/4W
R1949	1-249-384-11	CARBON	1.8	5%	1/4W F
R1950	1-249-400-11	CARBON	39	5%	1/4W F

REF.NO.	PART NO.	DESCRIPTION	REMARK

WB

*** A-1372-508-A WB BOARD, COMPLETE**
(KV-32V40/34VL65C/32V65CND/34VL65/32S40/
34SL40/34SL40C/32S45/34SL45 only)

4-382-854-11 SCREW (M3X10), P, SW (+)

CAPACITOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
C2941	1-126-935-11	ELECT	470MF	20%	16V
C2944	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C2946	1-126-933-11	ELECT	100MF	20%	16V
C2949	1-161-830-00	CERAMIC CHIP	0.0047MF		500V
C2950	1-126-933-11	ELECT	100MF	20%	16V
C2951	1-107-638-11	ELECT	33MF	20%	160V
C2952	1-104-999-11	MYLAR	0.1MF	10%	200V
C2953	1-106-383-00	MYLAR	0.047MF	10%	200V
C2954	1-137-364-11	FILM	0.001MF	5%	50V
C2955	1-107-667-11	ELECT	2.2MF	20%	160V
C2956	1-137-364-11	FILM	0.001MF	5%	50V
C2957	1-106-383-00	MYLAR	0.047MF	10%	200V
C2958	1-126-933-11	ELECT	100MF	20%	16V
C2975	1-163-001-11	CERAMIC CHIP	220PF	10%	50V

CONNECTOR

CN2941*	1-564-508-11	PLUG, CONNECTOR 5P	

DIODE

D2941	8-719-991-33	DIODE 1SS133T-77	
D2946	8-719-110-88	DIODE RD39ESB2	
D2947	8-719-110-88	DIODE RD39ESB2	

COIL

L2942	1-215-863-11	METAL OXIDE	100	5%	1W F

TRANSISTOR

Q2943	8-729-422-27	TRANSISTOR 2SD601A-Q
Q2944	8-729-422-27	TRANSISTOR 2SD601A-Q
Q2945	8-729-422-27	TRANSISTOR 2SD601A-Q
Q2946	8-729-017-05	TRANSISTOR 2SA1837
Q2947	8-729-017-06	TRANSISTOR 2SC4793
Q2965	8-729-422-27	TRANSISTOR 2SD601A-Q
Q2966	8-729-216-22	TRANSISTOR 2SA1162-G

RESISTOR

REF.NO.	PART NO.	DESCRIPTION			REMARK
R2943	1-216-025-91	RES,CHIP	100	5%	1/10W
R2948	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2949	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2950	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2951	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2952	1-216-037-00	RES,CHIP	330	5%	1/10W
R2953	1-216-021-00	RES,CHIP	68	5%	1/10W
R2954	1-216-033-00	RES,CHIP	220	5%	1/10W
R2955	1-216-047-91	RES,CHIP	820	5%	1/10W
R2956	1-216-295-91	SHORT			
R2957	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2958	1-216-295-91	SHORT			
R2959	1-216-021-00	RES,CHIP	68	5%	1/10W
R2979	1-216-017-91	RES,CHIP	47	5%	1/10W
R4941	1-260-311-11	CARBON	39	5%	1/2W
R4942	1-249-384-11	CARBON	1.8	5%	1/4W F
R4943	1-249-414-11	CARBON	560	5%	1/4W F
R4944	1-249-432-11	CARBON	18K	5%	1/4W
R4945	1-216-476-11	METAL OXIDE	180	5%	3W F
R4946	1-249-417-11	CARBON	1K	5%	1/4W F
R4947	1-249-432-11	CARBON	18K	5%	1/4W
R4948	1-249-414-11	CARBON	560	5%	1/4W
R4949	1-249-384-11	CARBON	1.8	5%	1/4W F
R4950	1-249-400-11	CARBON	39	5%	1/4W F

REF.NO.	PART NO.	DESCRIPTION	REMARK

S SERIES

ACCESSORIES AND PACKING MATERIALS

4-041-259-01	*	BAG, PROTECTION (KV-32S40/34SL40/34SL40C/32S45/34SL45/34SL40T)	
4-053-658-01	*	BAG, PROTECTION (KV-35S40/35S45/37SL45)	
4-063-179-01	*	CARTON, INDIVIDUAL (KV-32S40/32S45/34SL40T)	
4-056-782-01	*	CARTON, INDIVIDUAL (KV-35S40/35S45/37SL45)	
4-065-233-01	*	CARTON, INDIVIDUAL (KV-34SL40/34SL40C/34SL45)	
4-056-783-01	*	CUSHION, UPPER ASSY (KV-35S40/35S45/37SL45)	
4-063-180-01	*	CUSHION, UPPER ASSY (KV-32S40/34SL40/34SL40C/32S45/34SL45/34SL40T)	
4-056-784-01	*	CUSHION, LOWER ASSY (KV-35S40/35S45/37SL45)	
4-063-181-01	*	CUSHION, LOWER ASSY (KV-32S40/34SL40/34SL40C/32S45/34SL45/34SL40T)	
3-862-568-21		MANUAL, INSTRUCTION (KV-32S40/32S45/35S40/35S45)	
3-862-708-41		MANUAL, INSTRUCTION (KV-34SL40/34SL40C/34SL45/37SL45)	
3-864-098-71		MANUAL, INSTRUCTION (KV-34SL40T)	

REMOTE COMMANDER

1-475-801-11		REMOTE COMMANDER (RM-Y165) (KV-32S40/34SL40/34SL40C/32S45/35S40/34SL40T)	
4-978-977-01		BATTERY COVER (FOR REMOTE) (KV-32S40/34SL40/34SL40C/32S45/35S40/34SL40T)	
1-475-802-11		REMOTE COMMANDER (RM-Y167) (KV-34SL45/35S45/37SL45)	
4-978-977-01		BATTERY COVER (FOR REMOTE) (KV-34SL45/35S45/37SL45)	

REF.NO.	PART NO.	DESCRIPTION	REMARK

V SERIES

ACCESSORIES AND PACKING MATERIALS

4-041-259-01	*	BAG, PROTECTION (KV-32V40/34VL65C/32V65/34VL65)	
4-053-658-01	*	BAG, PROTECTION (KV-35V65/35VL65/35V65C)	
4-065-159-01	*	INDIVIDUAL CARTON (KV-34VL65C/34VL65)	
4-053-276-01	*	INDIVIDUAL CARTON (KV-35V65/35VL65/35V65C)	
4-054-073-12	*	INDIVIDUAL CARTON (KV-32V40/32V65)	
4-053-277-01	*	CUSHION, UPPER ASSY (KV-35V65/35VL65/35V65C)	
4-054-067-01	*	CUSHION, UPPER ASSY (KV-32V40/34VL65C/32V65/34VL65)	
4-054-070-01	*	CUSHION, LOWER ASSY (KV-32V40/34VL65C/32V65/34VL65)	
4-053-278-01	*	CUSHION, LOWER ASSY (KV-35V65/35VL65/35V65C)	
3-862-568-21		MANUAL, INSTRUCTION (KV-32V40)	
3-862-568-31		MANUAL, INSTRUCTION (KV-32V40CND/32V65CND/35V65CND)	
3-862-708-41		MANUAL, INSTRUCTION (KV-34VL65C/34VL65/37VL65C/37VL65)	

REMOTE COMMANDER

1-475-801-11		REMOTE COMMANDER (RM-Y165) (KV-32V40)	
4-978-977-01		BATTERY COVER (FOR REMOTE) (KV-32V40)	
1-475-802-11		REMOTE COMMANDER (RM-Y167) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C)	
4-978-977-01		BATTERY COVER (FOR REMOTE) (KV-34VL65C/32V65CND/34VL65/35V65CND/37VL65/37VL65C)	

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